TAPR Weather Special Interest Group Archive, January 2001 through December 2002

January 2001 through December 2002

TAPR's forum for amateur-radio weather-station hardware and software, including the T238 and T238+ systems, 1-Wire sensors, APRS weather transmission, firmware, construction, calibration, data logging, and station troubleshooting.

This volume contains 23 original monthly files and 753 messages, arranged chronologically. The PDF is a readable access copy: MIME transfer encodings are decoded, HTML bodies are converted to plain text, and non-text attachments are represented by descriptive notes. The raw source text is supplied separately with the Internet Archive item.

Month	Messages	Original source file
2001-01	78	wxsig.0101
2001-02	94	wxsig.0102
2001-03	56	wxsig.0103
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2002-09	15	wxsig.0209
2002-10	14	wxsig.0210
2002-12	11	wxsig.0212

January 2001

Original source file: wxsig.0101
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0101

1. [wxsig] 01-01-01 Status

From: "William Beals" <will@beals5.com>
Date: Mon, 1 Jan 2001 10:03:03 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-127641-2001.01.01-11.13.19--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Happy 2001! So far no noticeable "Y2.001K" bugs. I have been involved in several conversations that have not been going through the reflector and wanted to issue and update.

1.11.0 seems to be pretty stable. My biggest problem right now seems to consequences of my change in 1.10.x where I now support multiple baud rates on all formats and sub-formats. It is clear that when the messages get long and the baud rate it slow that some characters are getting lost. The short-term solution is to use a higher baud rate. The long term solution will be for me to impose minimum baud rates for each format to ensure that data will not get lost. This involves figuring out all the worst-case scenarios and making sure they are avoided. The other bug is that when upgrading from 1.10.x to 1.11.0, the baud rate does not automatically track for some reason. It was supposed to. This is too late for many of you, sorry.

If you have not upgraded to 1.11.0, I strongly suggest you do. It clears up a LOT of nasty little bugs that were intermittent in nature. The couple of issues above are minor and can be avoided, so it would make a good release for those of you that don't want to upgrade often. The diagnostic data has also turned out to be extremely useful in helping out several folk lately. The ability to monitor the 1-Wire bus voltage is a particularly handy feature.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Re: 01-01-01 Status

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Mon, 1 Jan 2001 11:20:41 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-127644-2001.01.01-11.32.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks Will,

I upgraded to 1.11 this morning when I realized I was at 1.10.2. I thought I had been sending debug telemetry but somewhere between notification and download I got the wrong version. Will I be able to see the debug data on Findu?

With the advent of the AAG weather station interest has peeked locally and we now have 10 DalSemi Wx stations and 3 T238's   I am working with the other fellas to get their data on the APRS Network. I am especially looking forward to the public release of the new QCMS page.

Thanks to Will, Russ and the rest of the T238 team for a great project, and their efforts for improving the T238 and Amateur Raido weather reporting.

Regards, and a Happy and Prosperous new year to all,

Rich Beckwith - Wn0x

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Re: 01-01-01 Status

From: "Russ Chadwick" <crb5@qwest.net>
Date: Mon, 1 Jan 2001 13:19:51 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-127660-2001.01.01-14.32.21--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

----- Original Message -----
From: Rich Beckwith <wn0x@earthlink.net>
Subject: [wxsig] Re: 01-01-01 Status

> I upgraded to 1.11 this morning when I realized I was at 1.10.2. I
thought
> I had been sending debug telemetry but somewhere between notification and
> download I got the wrong version. Will I be able to see the debug data on
> Findu?

Rich,

I don't know about seeing the debug data on Findu, but I have been recording all of the data from 1-Wire weather stations for about a month now. I started it to find the problems that we were having with temperatures of -68 and wind speeds of 099. For each day I find the different callsigns with "e1w" in the packet and determine the min and max values for direction, wind speed, gust, and temperature. For the past several days, I have been e-mailing this to people who have 1-Wire weather stations along with the diagnostic information. I will continue to do this as long as we are looking for bugs in the T-238 software. If anyone wants to be added to this list, just send me an e-mail.

Russ
kb0tvj

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] Mon08

From: Doug <dbuhrman@radiks.net>
Date: Mon, 01 Jan 2001 14:56:18 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-127672-2001.01.01-16.09.36--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will:
I had the same problem as Clay in getting the onboard monitor to start up.
If I hold the UP/DOWN buttons down then power-up, I get two
rows of solid boxes. Holding the buttons down and just reseting the
processor like Clay mentioned does the trick.

Doug K0DSP

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] Re: 01-01-01 Status

From: Mark Bender <mbender@ix.netcom.com>
Date: Mon, 01 Jan 2001 18:58:27 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-127709-2001.01.01-21.11.14--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello,

I just completed my Tapr weather station kit, and joined this SIG. Where should
I
go to download the latest rev of the software?

Mark Bender
kd6not

William Beals wrote:

>
> 1.11.0 seems to be pretty stable. My biggest problem right now seems to
> consequences of my change in 1.10.x where I now support multiple baud rates
> on all formats and sub-formats. It is clear that when the messages get long
> and the baud rate it slow that some characters are getting lost. The
> short-term solution is to use a higher baud rate. The long term solution
> will be for me to impose minimum baud rates for each format to ensure that
> data will not get lost. This involves figuring out all the worst-case
> scenarios and making sure they are avoided. The other bug is that when
> upgrading from 1.10.x to 1.11.0, the baud rate does not automatically track
> for some reason. It was supposed to. This is too late for many of you,
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> If you have not upgraded to 1.11.0, I strongly suggest you do. It clears up
> a LOT of nasty little bugs that were intermittent in nature. The couple of
> issues above are minor and can be avoided, so it would make a good release
> for those of you that don't want to upgrade often. The diagnostic data has
> also turned out to be extremely useful in helping out several folk lately.
> The ability to monitor the 1-Wire bus voltage is a particularly handy
> feature.
>
> will
>
> ==
> This message sent using 100% recycled electrons.
> (minimum 30% post-consumer)
> ==
> Will Beals
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
> ---
> You are currently subscribed to wxsig as: mbender@ix.netcom.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] Re: 01-01-01 Status

From: "Russ Chadwick" <crb5@qwest.net>
Date: Mon, 1 Jan 2001 20:42:29 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-127713-2001.01.01-21.54.57--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

http://www.beals5.com/wx

Russ
kb0tvj

----- Original Message -----
From: Mark Bender <mbender@ix.netcom.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Monday, January 01, 2001 7:58 PM
Subject: [wxsig] Re: 01-01-01 Status

> Hello,
>
> I just completed my Tapr weather station kit, and joined this SIG. Where
should
> I
> go to download the latest rev of the software?
>
>

> Mark Bender
> kd6not
>
> William Beals wrote:
>
> >
> > 1.11.0 seems to be pretty stable. My biggest problem right now seems to
> > consequences of my change in 1.10.x where I now support multiple baud
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> >
> > will
> >
> > ===
> > This message sent using 100% recycled electrons.
> > (minimum 30% post-consumer)
> > ===
> > Will Beals
> > 15014 East Idaho Place
> > Aurora, CO 80012
> > 303-755-0293
> > will@beals5.com
> >
> > ---
> > You are currently subscribed to wxsig as: mbender@ix.netcom.com
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] Re: 01-01-01 Status

From: "William Beals" <will@beals5.com>
Date: Mon, 1 Jan 2001 22:02:44 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-127719-2001.01.01-23.12.48--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mark:

Welcome to the SIG and cool on completing the kit. Russ has already given
you the website for the gory details. More kits, More data... (more people
finding bugs! :-))

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Mark Bender
Sent: Monday, January 01, 2001 7:58 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 01-01-01 Status

Hello,

I just completed my Tapr weather station kit, and joined this SIG. Where should
I
go to download the latest rev of the software?

Mark Bender
kd6not

William Beals wrote:

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> consequences of my change in 1.10.x where I now support multiple baud rates
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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] No Banner for MON08 download--normal on first 100 kits.

From: "William Beals" <will@beals5.com>
Date: Mon, 1 Jan 2001 22:02:42 -0700

To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-127718-2001.01.01-23.12.45--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Doug and Clay:

Oops, forgot to mention this on Clays email: I posted this quite a while
ago and it bears repeating.

WARNING: Not all of the T238 kits out there will put up the MON08 banner
for downloads as Doug and Clay re-discovered. I added the banner to the
download code only AFTER the first 100 TAPR kits had been built. Alas when
you upgrade the software, the monitor is not upgraded (it is doing the
downloading!), so if your unit does not give you the banner, it never will
unless you start from scratch using the Motorola tools. Unless you really
want this banner, I suggest you live with the two rows of boxes.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Doug
Sent: Monday, January 01, 2001 1:56 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Mon08

Will:
I had the same problem as Clay in getting the onboard monitor to start up.
If I hold the UP/DOWN buttons down then power-up, I get two
rows of solid boxes. Holding the buttons down and just reseting the
processor like Clay mentioned does the trick.

Doug   K0DSP

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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] Wind direction problem revisited.

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Tue, 02 Jan 2001 07:48:27 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-127744-2001.01.02-08.04.45--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ok I upgraded to 1.11.0 on 12-31. GREAT revision! Last night I was out
in the shack and noticed the wind direction had gone "south"
again...Ummm make that gone "bad" again as --- for direction was on the
display. Last time as you all may remember I suspected a power failure
but I was not 100% sure. This time I know it failed just after "tuning
up" on 20M. Again I tried to re-calibrate the wind direction but no ID's
were found. I reset the T238. Still no ID's. When this happened on
version 1.10.x I burned a couple new chips and could not get any to
calibrate. Back to the old 1.09.x chip seemed to work fine and upgrading
to 1.11.0 worked as well. Alas I remembered when installing 1.11.0 I was
distracted by the kiddos and left the 1wire line disconnected from the
T238 and T238 powered down for about 10 minutes. So as an experiment
last night I powered down the T238 for 5 minutes. Powered back up and
went to the wind direction calibration. Wala! the first ID was seen
immediately! Back up to the roof of the shack to un-clip the vane from
north, do the hokey-pokey, spin vane three times clockwise slowly (add a
fourth just to be sure) tip your hat, click your heels and clip the vane
back on north again. Slide down the ladder to the shack again and all
id's have been found as the display is asking for the vane to be pointed
north! Yipeee were back up and running! Don't get so excited now as one
more trip to the roof to un-clip or we will be reading north all the
time. (yep, did that once before)
What did I learn:
1. It seems HF RF is the issue. The 2m 50w antenna is 5' below the HF
yagi up 50'and 2m xmits the wx packets every 5 minutes with no problem.
2. Every time I tried to re-calibrate the last time this bit me I only
powered down long enough to reset the T238 or change the chip.(about 30

seconds max)
3. If you see this problem power down for 5-10 minutes and try to
re-calibrate.
4. The first time I saw this I noticed my direction on findu was @ North
100% of the time for a entire day and all other functions seemed OK.
When I got home (yes I confess to watching my home wx from work) I
discovered the display showing --- for direction.
5. I suspect the 1 wire station is the one that needs extended power
down. Next time I will only unplug the 1-wire line and see if it can be
recovered with no re-calibration.
6. FYI my 1-wire voltage is 3.72v according to the new nifty display.

I will experiment with this more this week and post my findings. (It was
below freezing and dark when I was working this and not so much fun for
us folks in Texas not used to this sort of madness)
Regards,
Bill N5ZTW

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] Re: No Banner for MON08 download--normal on first 100 kits.

From: "Rich Beckwith" <Rich@dps.state.mo.us>
Date: Tue, 02 Jan 2001 08:15:35 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-127745-2001.01.02-08.27.52--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I wondered about that. Well, looks like I'll do without!

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] Change of EMAIL ADDRESS

From: "Doug McKinney" <mckinney@scruznet.com>
Date: Tue, 2 Jan 2001 10:21:28 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: <admin@nic.scruz.net>
Message-ID: <LYR15067-127773-2001.01.02-12.38.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm shifting IPs from RedShift.com to Scruznet.com

My email for xxx@mt.to (where xxx are the various mail boxes) went through buoy@redshift.com, and my new
 email box is buoy@scruznet.com . xxx@mt.to will should now go to Scruznet.com. I will leave redshift
up for one month to help over come comlications.

For scruznet.com, please confirm! Provide any corrections to all parties listed.

Doug McKinney
(831)663-4999

12. [wxsig] -68 bug -duplicating?

From: "Ehler, Kyle" <kehler@lsil.com>
Date: Tue, 2 Jan 2001 16:01:38 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-127823-2001.01.02-16.16.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In regards to the -68 bug. . .I noticed the other day while swapping parts
between a pair of T238's and pair of Wx sensor arrays that the -68 appeared.
I was trying to calibrate two T238's using one set of sensors
(wind/temp/dir) in the lab and found that the swap does not work quite
right. I wish it did 'cuz now I gotta get on the roof and recal.

Btw, re-cal'ing these sucks for the above reason.

Cheers,

Kyle

13. [wxsig] -68s when swapping sensors

From: "William Beals" <will@beals5.com>
Date: Tue, 2 Jan 2001 15:21:19 -0700

To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-127826-2001.01.02-16.31.18--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Kyle:

I recently saw the same thing you did--and was doing almost exactly the same thing with one of Russes T238s. Normally I refuse to go into weather gathering mode unless a cal has been done. I have not taken care of the case where you cal on one set of sensors, then plug in a different set. Instead of just refusing to report data, I do put out some weird stuff. This definitely qualifies as a bug, but for now the solution is "Don't do that". Cheesey answer, I know. It is on my list.

will

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(minimum 30% post-consumer)
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Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] Power-down analysis

From: "William Beals" <will@beals5.com>
Date: Tue, 2 Jan 2001 21:42:40 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-127928-2001.01.02-22.52.48--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill:

Thanks for the extended report on your findings. I certainly don't have a good explanation as to why a 5-minute versus 30-second power-down would make a difference, but it certainly does in your case. My normal limit on power-downs is about 10 seconds and this seems to work for me. Do you run the unit using a power supply of biblical proportions that may be taking a long time to discharge? I have such a supply I used at first and had to wait about 30 seconds or so for the 5V to drop down to less than a volt.

Good luck on the HF RF issue. I blindly put in ferrites on all the external signals, but unless you have the board in a metal box, they do nothing.

3.72 volts is a bit low for your 1-wire bus voltage. The parts are spec'd down to 3V but you clearly want some margin over that. My inside sensor unit is at about the same voltage and at least in my non-stressful indoor environment it seems to be behaving.

will

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Will Beals
15014 East Idaho Place
Aurora, CO 80012
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15. [wxsig] another voltage measurement

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Wed, 3 Jan 2001 17:02:01 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128022-2001.01.03-16.16.13--lyris.wxsig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

The one-wire buss voltage measurement is a great idea, I was wondering
if there is, amongst the unused bits, another A/D-able line we could
hang the input power line (nominal 12 Volts) via a 3 to 1 voltage
deivider to bring it down to the 0-5 volt range. It would be real handy
to know this voltage for remote weather stations ...

 73 de n1bq ...

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] RE: another voltage measurement

From: "William Beals" <will@beals5.com>
Date: Wed, 3 Jan 2001 21:32:33 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128086-2001.01.03-22.42.39--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Brain:

Not a bad idea. Of course this won't just be a SW upgrade, but adding a few
resistors is easy. Of note, Of the eight pins that can be A/Ds, three are
for 1-wire, and four are for the switches. One is left that could be used
for a voltage monitor. Given their usefulness, I guess with hindsight I
should have left those more open.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Brian B. Riley
Sent: Wednesday, January 03, 2001 3:02 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] another voltage measurement

The one-wire buss voltage measurement is a great idea, I was wondering
if there is, amongst the unused bits, another A/D-able line we could
hang the input power line (nominal 12 Volts) via a 3 to 1 voltage
deivider to bring it down to the 0-5 volt range. It would be real handy
to know this voltage for remote weather stations ...

 73 de n1bq ...

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

17. [wxsig] RE: another voltage measurement

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Thu, 4 Jan 2001 16:56:07 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128221-2001.01.04-16.08.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> -----Original Message-----
> From: William Beals
> Sent: Wednesday, January 03, 2001 23:33 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: another voltage measurement
>

> Not a bad idea. Of course this won't just be a SW upgrade,
> but adding a few resistors is easy. Of note, Of the eight
> pins that can be A/Ds, three are for 1-wire, and four are
> for the switches. One is left that could be used
> for a voltage monitor. Given their usefulness, I guess with
> hindsight I should have left those more open.

OK, how tough to add it in software and is there any problem with two more chars in the diagnostic? This is something I would really like to see soon. It seems to me it should be harmless if the pin was left free. Could this be determined in software? or would we need, yet another, setup "on"/"off" flag.

I also was thinking that if we were looking at some tough diagnostic problem might it not be nice to be able to either force a diagnostic packet or at least set diagnostic packet rate to something like 1,2,3,or 4 times per hour or even every frame????

Speaking of diagnostic problems. In light of my recent problmes and the reasonable behaviour of my unit once again in spite of the borderline voltage does it seem most likely that its the protective diode? I have made arrangement for one of my local monkeys to go up the tower either this weekend or early next week and bring the arm down, will remount it down here and evaluate it. What should the resistance of an unpowered board be via a DMM?

By the way I contacted the people in Mexico about the possibility of purchasing just a sensor board, and they said that for the momemnt that is out their production is geared towards complete kits but they contemplate selling parts in the future once the business is established.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

18. [wxsig] Re: No Banner for MON08 download--normal on first 100 kits.

From: Doug <dbuhrman@radiks.net>
Date: Thu, 04 Jan 2001 18:25:55 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128251-2001.01.04-20.39.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Will:

I loaded v1.10.2 from scratch using the PE Micro tools and still no banner. Is there something else I need to do? Was there any change in the hardware as I copied the schematics from your original documents?

Doug K0DSP

> Doug and Clay:
>
> Oops, forgot to mention this on Clays email: I posted this quite a while
> ago and it bears repeating.
>
> WARNING: Not all of the T238 kits out there will put up the MON08 banner
> for downloads as Doug and Clay re-discovered. I added the banner to the
> download code only AFTER the first 100 TAPR kits had been built. Alas when
> you upgrade the software, the monitor is not upgraded (it is doing the
> downloading!), so if your unit does not give you the banner, it never will
> unless you start from scratch using the Motorola tools. Unless you really
> want this banner, I suggest you live with the two rows of boxes.
>
> will
>
>
> Will:
> I had the same problem as Clay in getting the onboard monitor to start up.
> If I hold the UP/DOWN buttons down then power-up, I get two
> rows of solid boxes. Holding the buttons down and just reseting the
> processor like Clay mentioned does the trick.
>
> Doug K0DSP
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

19. [wxsig] New PROG08SZ software availible

From: John Vause <jdv@iglou.com>
Date: Thu, 04 Jan 2001 22:33:54 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128256-2001.01.04-21.46.27--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

For those who want to use the Windows-Based programmer on their T238,
there is a new revision of the PROG08SZ software(now at ver. 1.45).

http://www.pemicro.com/ics08/prog08sz_interactive_install_120500.exe

This solved an issue I had with the Prog08sz 1.33 version not talking
to my T238 after I had updated to the 1.10.2 firmware.

73
--
* John Vause KF4ERV jdv@igloudot.com   *
* NOTE: email address altered for benefit of Spambots *
* "Necessity is the plea of every infringement of   *
* human freedom. It is the argument of tyrants;   *
* it is the creed of slaves." -- William Pitt   *
--

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

20. [wxsig] RE: another voltage measurement

From: "Russ Chadwick" <crb5@qwest.net>
Date: Thu, 4 Jan 2001 21:55:41 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128265-2001.01.04-23.08.18--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

For a remote station using a KPC-3+ TNC, there is another approach to
measuring the voltage powering the T-238. That is to use one of the two A/D
converters that are in the KPC-3+. These are 8-bit converters with a full
voltage range of 5.0 volts and a max input voltage of 50 volts. With the
remote control features of the KPC-3+, it would be easy to connect remotely,
issue one command and download the voltages across the two A/D converters.

Russ
kb0tvj

----- Original Message -----
From: Brian B. Riley <brianbr@wulfden.org>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Thursday, January 04, 2001 2:56 PM
Subject: [wxsig] RE: another voltage measurement

>
>
> > -----Original Message-----
> > From: William Beals
> > Sent: Wednesday, January 03, 2001 23:33 PM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] RE: another voltage measurement
> >
>
> > Not a bad idea. Of course this won't just be a SW upgrade,
> > but adding a few resistors is easy. Of note, Of the eight
> > pins that can be A/Ds, three are for 1-wire, and four are
> > for the switches. One is left that could be used
> > for a voltage monitor. Given their usefulness, I guess with
> > hindsight I should have left those more open.
>
> OK, how tough to add it in software and is there any problem with two
> more chars in the diagnostic? This is something I would really like to
> see soon. It seems to me it should be harmless if the pin was left free.
> Could this be determined in software? or would we need, yet another,
> setup "on"/"off" flag.
>
> I also was thinking that if we were looking at some tough diagnostic
> problem might it not be nice to be able to either force a diagnostic
> packet or at least set diagnostic packet rate to something like 1,2,3,or
> 4 times per hour or even every frame????
>

> Speaking of diagnostic problems. In light of my recent problmes and the
> reasonable behaviour of my unit once again in spite of the borderline
> voltage does it seem most likely that its the protective diode? I have
> made arrangement for one of my local monkeys to go up the tower either
> this weekend or early next week and bring the arm down, will remount it
> down here and evaluate it. What should the resistance of an unpowered
> board be via a DMM?
>
> By the way I contacted the people in Mexico about the possibility of
> purchasing just a sensor board, and they said that for the momemnt that
> is out their production is geared towards complete kits but they
> contemplate selling parts in the future once the business is
> established.
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

21. [wxsig] More diag packets

From: "William Beals" <will@beals5.com>
Date: Fri, 5 Jan 2001 09:22:05 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128322-2001.01.05-10.32.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Brian:

If I add the +12V sensor, I'd just add it all the time. If the person
didn't have it hooked up, it would hopefully just report 00. I'm as
un-enamored with adding more option menus as everyone else is dealing with
them. My only concern is that a floating input may not read 00 in which
case I'd be transmitting nonsense and that would be bad.

I have not had to fix a bad station yet (lucky so far), so I'm not sure what
"good" and "bad" resistances would be--or if it really is the diode for
sure. Your only reference is the bus voltage, so I suggest looking at that
until whatever component removal fixes the problem. Powering the sensor
board should be pretty easy though. Hopefully it is the diode, in which
case you are done. If it is something a bit more critical, then you will
need a replacement sensor board.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

22. [wxsig] RE: another voltage measurement

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Fri, 5 Jan 2001 14:55:05 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128330-2001.01.05-14.07.48--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yes, but I am trying to promote 'one stop shopping' here ... we have the
capability here, we have the diagnostics being sent, it would seem from
the commenst that the software to read the voltage is trivial, the
hardware mod is even more trivial and we have all the dignostic data of
the station available from one frame every hour the capabilities are
there and quite frankly the use of a KPC3+ in this application is a

waste ... an old TNC1 would do! I am still lobbying to have the T-238
talk to a MX614 and be its own TNC. The hardware interfacing isn't
difficult most of could do it on the proto area, we just need the code
to do it. it might mean skipping one 5 second weather read cycle every
five minutes but that's not the end of the world.

> -----Original Message-----
> From: Russ Chadwick
> Sent: Thursday, January 04, 2001 23:56 PM
>
> For a remote station using a KPC-3+ TNC, there is another approach to
> measuring the voltage powering the T-238. That is to use one
> of the two A/D converters that are in the KPC-3+. These are 8-bit
> converters with a full voltage range of 5.0 volts and a max input
voltage of 50
> volts. With the remote control features of the KPC-3+, it would be
easy to
> connect remotely, issue one command and download the voltages across
the two
> A/D converters.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

23. [wxsig] RE: New PROG08SZ software available

From: "William Beals" <will@beals5.com>
Date: Fri, 5 Jan 2001 09:32:12 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128325-2001.01.05-10.42.32--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

John:

What problems were you having? I'm still running 1.14. Sounds like I
should update!

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of John Vause
Sent: Thursday, January 04, 2001 8:34 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] New PROG08SZ software availible

For those who want to use the Windows-Based programmer on their T238,
there is a new revision of the PROG08SZ software(now at ver. 1.45).

http://www.pemicro.com/ics08/prog08sz_interactive_install_120500.exe

This solved an issue I had with the Prog08sz 1.33 version not talking
to my T238 after I had updated to the 1.10.2 firmware.

73
--
* John Vause KF4ERV jdv@igloudot.com   *
* NOTE: email address altered for benefit of Spambots *
* "Necessity is the plea of every infringement of   *
* human freedom. It is the argument of tyrants;   *
* it is the creed of slaves." -- William Pitt   *
--

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

24. [wxsig] Re: No Banner for MON08 download--normal on first 100 kits.

From: "William Beals" <will@beals5.com>
Date: Fri, 5 Jan 2001 09:32:11 -0700

To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128324-2001.01.05-10.42.09--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Doug:

1.10.0 and beyond should have an OK splash screen. I added it earlier, but had some problems with initializing the LCD that didn't get fixed until that release. No schematic changes have been made. On the VERY early designs I had an 8-bit interface, but hopefully you only have the 4-bit interface hooked up. Also, check each of the resistors on Port A, one is for the LCD to make sure it comes up cleanly. The only other twiddling I did compared to long ago was the buttons got remapped when we went to the layout. If the main SW works as expected, you have already taken this into account.

Lemme know what you find out.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Doug
Sent: Thursday, January 04, 2001 5:26 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: No Banner for MON08 download--normal on first 100 kits.

> Will:

I loaded v1.10.2 from scratch using the PE Micro tools and still no banner. Is there something else I need to do? Was there any change in the hardware as I copied the schematics from your original documents?

Doug K0DSP

> Doug and Clay:
>
> Oops, forgot to mention this on Clays email: I posted this quite a while
> ago and it bears repeating.
>
> WARNING: Not all of the T238 kits out there will put up the MON08 banner
> for downloads as Doug and Clay re-discovered. I added the banner to the
> download code only AFTER the first 100 TAPR kits had been built. Alas
when
> you upgrade the software, the monitor is not upgraded (it is doing the
> downloading!), so if your unit does not give you the banner, it never will
> unless you start from scratch using the Motorola tools. Unless you really
> want this banner, I suggest you live with the two rows of boxes.
>
> will
>
>
> Will:
> I had the same problem as Clay in getting the onboard monitor to start up.
> If I hold the UP/DOWN buttons down then power-up, I get two
> rows of solid boxes. Holding the buttons down and just reseting the
> processor like Clay mentioned does the trick.
>
> Doug K0DSP
>

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

25. [wxsig] RE: New PROG08SZ software available

From: John Vause <jdv@iglou.com>
Date: Sat, 06 Jan 2001 10:32:57 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>

Message-ID: <LYR15067-128430-2001.01.06-09.45.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Not really sure what started the problem. All I know for sure is that
I upgraded the T238 to 1.10.2 (which the 1.33 version of prog08sz did
without problems) I haven't been able to get prog08sz 1.33 to connect
to the T238. It would sometimes make an initial connection but when
it tried to upload the programming module, it would lose the connection
and ask me to reset the processor. Same cable, same settings,
same OS (WinNT 4.0 SP5), no connection.

I upgraded to the 1.45 version and prog08sz talks to the T238 again.
Same cable, same settings, same OS (WinNT 4.0 SP5), now I can
get a connection and program the processor. Beats me.

The DOS MON08 uploader worked fine on 1.10.2 and 1.11.0 firmware
revisions.

73

William Beals wrote:
>
> John:
>
> What problems were you having? I'm still running 1.14. Sounds like I
> should update!
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of John Vause
> Sent: Thursday, January 04, 2001 8:34 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] New PROG08SZ software availible
>
> For those who want to use the Windows-Based programmer on their T238,
> there is a new revision of the PROG08SZ software(now at ver. 1.45).
>
> http://www.pemicro.com/ics08/prog08sz_interactive_install_120500.exe
>
> This solved an issue I had with the Prog08sz 1.33 version not talking
> to my T238 after I had updated to the 1.10.2 firmware.

--
* John Vause KF4ERV jdv@igloudot.com   *
* NOTE: email address altered for benefit of Spambots *
* "Necessity is the plea of every infringement of   *
* human freedom. It is the argument of tyrants;   *
* it is the creed of slaves." -- William Pitt   *
--

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

26. [wxsig] RE: another voltage measurement

From: "William Beals" <will@beals5.com>
Date: Sat, 6 Jan 2001 12:31:29 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128448-2001.01.06-13.41.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Brian:

I do agree with your long-term strategy of no longer requiring the TNC at
all, but alas that is a ways off. I hope to get there eventually, but for
the short term the more pressing items to concentrate on are the humidity
sensor. I hope I have the nastier bugs taken care of now, so it is time to
start adding features again.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Brian B. Riley
Sent: Friday, January 05, 2001 12:55 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: another voltage measurement

Yes, but I am trying to promote 'one stop shopping' here ... we have the capability here, we have the diagnostics being sent, it would seem from the commenst that the software to read the voltage is trivial, the hardware mod is even more trivial and we have all the dignostic data of the station available from one frame every hour the capabilities are there and quite frankly the use of a KPC3+ in this application is a waste ... an old TNC1 would do! I am still lobbying to have the T-238 talk to a MX614 and be its own TNC. The hardware interfacing isn't difficult most of could do it on the proto area, we just need the code to do it. it might mean skipping one 5 second weather read cycle every five minutes but that's not the end of the world.

> -----Original Message-----
> From: Russ Chadwick
> Sent: Thursday, January 04, 2001 23:56 PM
>
> For a remote station using a KPC-3+ TNC, there is another approach to
> measuring the voltage powering the T-238. That is to use one
> of the two A/D converters that are in the KPC-3+. These are 8-bit
> converters with a full voltage range of 5.0 volts and a max input
voltage of 50
> volts. With the remote control features of the KPC-3+, it would be
easy to
> connect remotely, issue one command and download the voltages across
the two
> A/D converters.

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

27. [wxsig] CQ K9AZZ

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sat, 6 Jan 2001 13:06:47 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128450-2001.01.06-14.19.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

John Stevens, K9AZZ

John, if you see this, please send me your e-mail address. I need to put
you on the mailing list for operating 1-Wire weather stations that I send
diagnostic information to.

crb5@qwest.net

Russ
kb0tvj

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

28. [wxsig] Connect Peet Brothers to KPC3+

From: "Bob Baldwin" <rmbaldwin@home.com>
Date: Sat, 6 Jan 2001 20:09:19 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128490-2001.01.06-19.24.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Anyone connect a Peet Brothers direct to a KPC3+
for APRS? Any thoughts or suggestions would be appreciated.

Bob
KE4KUR

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

29. [wxsig] Re: No Banner for MON08 download--normal on first 100 kits.

From: Doug <dbuhrman@radiks.net>
Date: Sat, 06 Jan 2001 18:32:15 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128494-2001.01.06-19.45.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will:
I checked the resistors and they are installed and intact. I'm working from
a schematic that is dated 9/1/99. Only 2 10K resistors are shown, one is
on J7-6 to gnd and the other is on J7-14 to gnd. Should all the lines be
tied low through 10K resistors? To answer your other questions, yes I'm
using a 4-bit interface on the LCD and yes the main SW worked fine on
ver 1.10.2 and 1.11.0. Just getting it to run the monitor by holding the
UP/DN buttons doesn't work unless I pull the 5 volt jumper to the uP.
It's no big deal just weird. On another note, what is the format for the
diagnostic data? Thanks again for all your hard efforts and I hope you're
not getting burned out. This has turned into quite a project for you!

Doug K0DSP

> Doug:
>
> 1.10.0 and beyond should have an OK splash screen. I added it earlier, but
> had some problems with initializing the LCD that didn't get fixed until that
> release. No schematic changes have been made. On the VERY early designs I
> had an 8-bit interface, but hopefully you only have the 4-bit interface
> hooked up. Also, check each of the resistors on Port A, one is for the LCD
> to make sure it comes up cleanly. The only other twiddling I did compared
> to long ago was the buttons got remapped when we went to the layout. If the
> main SW works as expected, you have already taken this into account.
>
> Lemme know what you find out.
>
> will
>
>
>
> > Will:
>
> I loaded v1.10.2 from scratch using the PE Micro tools and still no banner.
> Is there something else I need to do? Was there any change in the
> hardware as I copied the schematics from your original documents?
>
> Doug K0DSP
>
> > Doug and Clay:
> >
> > Oops, forgot to mention this on Clays email: I posted this quite a while
> > ago and it bears repeating.
> >
> > WARNING: Not all of the T238 kits out there will put up the MON08 banner
> > for downloads as Doug and Clay re-discovered. I added the banner to the
> > download code only AFTER the first 100 TAPR kits had been built. Alas
> when
> > you upgrade the software, the monitor is not upgraded (it is doing the
> > downloading!), so if your unit does not give you the banner, it never will
> > unless you start from scratch using the Motorola tools. Unless you really
> > want this banner, I suggest you live with the two rows of boxes.
> >
> > will
> >
> >
> > Will:
> > I had the same problem as Clay in getting the onboard monitor to start up.
> > If I hold the UP/DOWN buttons down then power-up, I get two
> > rows of solid boxes. Holding the buttons down and just reseting the
> > processor like Clay mentioned does the trick.
> >
> > Doug K0DSP

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

30. [wxsig] Debug messages

From: Doug <dbuhrman@radiks.net>
Date: Sat, 06 Jan 2001 18:41:16 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128495-2001.01.06-19.54.39--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Never mind Will. I saw the descriptions on your web page.
Sorry, I should've checked there first.

Doug   K0DSP

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

31. [wxsig] Re: No Banner for MON08 download--normal on first 100 kits.

From: "William Beals" <will@beals5.com>
Date: Sat, 6 Jan 2001 18:54:22 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128497-2001.01.06-20.04.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Doug:

Thanks for the nice words. I do have to be careful on managing time on this
and the dozens of other things I do.

The 9-1-99 schematic is close enough. There is a newer one, but it only
added a new 1x14 header in addition to the 2x7 one for the LCD. The micro
only looks for the two-button sequence after reset, that is normal. There
is a tricky thing about the 5V to the micro. Just pulling a jumper doesn't
quite do it reliably. In order to really reset the micro I had to add that
extra resistor (R14) to get switched in when the button was pushed. The
problem I was running into was that I had to keep power to the MAX232 (VPP
generator) even though I needed to remove power from the micro. Problem was
that the protection diodes on the micros pins that were connected to devices
that still had power (like the MAX232, LCD, etc) provided enough power to
the micro that it did not reliably go through its reset process. That
resistor is there to make sure the VCC lines to very close to ground. I'm
not sure if this is THE problem, but it may be a problem.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Doug
Sent: Saturday, January 06, 2001 5:32 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: No Banner for MON08 download--normal on first 100
kits.

Will:
I checked the resistors and they are installed and intact. I'm working from
a schematic that is dated 9/1/99. Only 2 10K resistors are shown, one is
on J7-6 to gnd and the other is on J7-14 to gnd. Should all the lines be
tied low through 10K resistors? To answer your other questions, yes I'm
using a 4-bit interface on the LCD and yes the main SW worked fine on
ver 1.10.2 and 1.11.0. Just getting it to run the monitor by holding the
UP/DN buttons doesn't work unless I pull the 5 volt jumper to the uP.
It's no big deal just weird. On another note, what is the format for the
diagnostic data? Thanks again for all your hard efforts and I hope you're
not getting burned out. This has turned into quite a project for you!

Doug   K0DSP

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

32. [wxsig] Re: Connect Peet Brothers to KPC3+

From: "Kurt O. Jauss" <kf6hjo@lightspeed.net>
Date: Sat, 06 Jan 2001 19:04:42 -0800

To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128500-2001.01.06-21.17.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The question is, do you want to attach the weather station to the
serial port (25 pin) to run as
a stand alone transmitter or to the radio port (9 pin) . Also what version
of APRS do you plan to
use. I can do some testing on this Sunday and let you know what I found.

Bob Baldwin wrote:

> Anyone connect a Peet Brothers direct to a KPC3+
> for APRS? Any thoughts or suggestions would be appreciated.
>
> Bob
> KE4KUR
>

--
  Kurt O. Jauss
     kf6hjo@lightspeed.net
         3630.45N 11940.50W   144.39Mhz
       Selma Ca.   {APRS Weather & GPS Tracker}
 SKYWARN member Hanford Ca. NWS Radio Officer
              DOSAPRS/WAPRS/APRS+SA
  Want to find my truck? http://www.findu.com/cgi-bin/find.cgi?kf6hjo-9

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

33. [wxsig] Re: Connect Peet Brothers to KPC3+

From: Steve Dimse <sdimse@telocity.com>
Date: Sun, 7 Jan 2001 07:57:10 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-128527-2001.01.07-07.14.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 1/6/01 8:09 PM Bob Baldwin (rmbaldwin@home.com) wrote:

>Anyone connect a Peet Brothers direct to a KPC3+
>for APRS? Any thoughts or suggestions would be appreciated.
>
Very easy to do. Just wire the Peet to the serial port, set up the beacon
text to contain your position, GPSHEAD to !!, set the GPS beacon rates,
and away you go. There are a few sites on the web that document the
precise parameters, the tapr aprs archives have lots of info too, here is
a link:

http://www.tapr.org/tapr/list-archive/aprssig/9907/msg00167.html

Steve K4HG

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

34. [wxsig] 0/0 Wind Speed Problme - more thoughts

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Wed, 10 Jan 2001 16:35:18 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129089-2001.01.10-15.48.15--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I know that my T238 controller buss voltage is low and that is causing
osme erratic behaviour. But after I got hit again last night with
0mph/0mph wind speed problem again, I went and looked at all the times
that it occurred and the one thing that keeps cropping up is that as far
as I can see with one exception it happened every time right when or
shortly after the temperature goes beneath 0 degrees F. I will still
grant that it may be a hardware problem, but I keep wondering if there
isn't something 'special' about how 0F is handled, sort of like that -68
problem, can you guys take a look at it and see if maybe there isn't
something else.

72 de brian, n1bq

--
N1BQ-3 @ 44 31.73N 072 51.55W
WideN-N digi and weather station in Underhill Center, VT
mailto:n1bq@wulfden.org
AMSAT LM-1418   NJQRP #274
QRP-L #2276   Zombie #768

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

35. [wxsig] CQ W0NWS

From: "Russ Chadwick" <crb5@qwest.net>
Date: Wed, 10 Jan 2001 21:01:34 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129117-2001.01.10-22.14.26--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm looking for a person associated with the call W0NWS. In the QRZ
database, it is listed to:

SKYWARN AMT RADIO ASSN OF EASTERN NE & SW IA
500 LAREDO RD
PAPILLION NE 68046-3790
USA

There is also an e-mail address given, but things sent there bounce back.
If you know anyone associated with this organization, could you have them
send me an e-mail.

Russ
kb0tvj

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

36. [wxsig] Re: 0/0 Wind Speed Problme - more thoughts

From: "Russ Chadwick" <crb5@qwest.net>
Date: Wed, 10 Jan 2001 21:25:25 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129120-2001.01.10-22.38.20--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

----- Original Message -----
From: Brian B. Riley <brianbr@wulfden.org>
Subject: [wxsig] 0/0 Wind Speed Problme - more thoughts

> I know that my T238 controller buss voltage is low and that is causing
> osme erratic behaviour. But after I got hit again last night with
> 0mph/0mph wind speed problem again, I went and looked at all the times
> that it occurred and the one thing that keeps cropping up is that as far
> as I can see with one exception it happened every time right when or
> shortly after the temperature goes beneath 0 degrees F. I will still
> grant that it may be a hardware problem, but I keep wondering if there
> isn't something 'special' about how 0F is handled, sort of like that -68
> problem, can you guys take a look at it and see if maybe there isn't
> something else.

Brian,

The attached file shows your data packets that have appeared on aprs.net
since midnight MST. It looks like the 0 values for velocity went away
before the temperature went close to zero. We will keep an eye on this to
see if funny things happen to your readings around 0 degrees.

Russ
kb0tvj
[Attachment: A20010110n1bq.TXT; text/plain; 10,624 bytes]

37. [wxsig] Re: 0/0 Wind Speed Problme - more thoughts

From: "William Beals" <wmbeals@compuserve.com>
Date: Thu, 11 Jan 2001 00:01:11 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129142-2001.01.11-01.14.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Brian:

(For all: Just got back from a business trip, will continue catching up
over the next couple evenings)

All of my internal temperature processing is done in degress C using an
offset-55 notation, so 0F should not have any particular significance. Of
interest, one of my temperature sensors does go crazy right about 0 degrees
F as well. In my case the manifestation is that it suddenly starts reporing
0 degrees C (32 F) when this happens. I have corrolated it to the sensor as
I switched to my other sensor and the problem went away. Not sure if this
is related to your problem or not, but it is something I'm keeping track of
to see if there are other issues. 0F readings happen rarely enough around
here that it could be circumstance that the problem just happned to go away
for other reasons when I switched sensors, so I don't necessary consider the
issue closed.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Russ Chadwick
Sent: Wednesday, January 10, 2001 9:25 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 0/0 Wind Speed Problme - more thoughts

----- Original Message -----
From: Brian B. Riley <brianbr@wulfden.org>
Subject: [wxsig] 0/0 Wind Speed Problme - more thoughts

> I know that my T238 controller buss voltage is low and that is causing
> osme erratic behaviour. But after I got hit again last night with
> 0mph/0mph wind speed problem again, I went and looked at all the times
> that it occurred and the one thing that keeps cropping up is that as far
> as I can see with one exception it happened every time right when or
> shortly after the temperature goes beneath 0 degrees F. I will still
> grant that it may be a hardware problem, but I keep wondering if there
> isn't something 'special' about how 0F is handled, sort of like that -68
> problem, can you guys take a look at it and see if maybe there isn't
> something else.

Brian,

The attached file shows your data packets that have appeared on aprs.net
since midnight MST. It looks like the 0 values for velocity went away
before the temperature went close to zero. We will keep an eye on this to
see if funny things happen to your readings around 0 degrees.

Russ
kb0tvj

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38. [wxsig] Re: CQ W0NWS

From: Kevin Faris <kf64358@navix.net>
Date: Thu, 11 Jan 2001 08:10:06 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129176-2001.01.11-08.22.07--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ Chadwick wrote:

> I'm looking for a person associated with the call W0NWS. In the QRZ
> database, it is listed to:
>
> SKYWARN AMT RADIO ASSN OF EASTERN NE & SW IA

> 500 LAREDO RD
> PAPILLION NE 68046-3790
> USA
>
> There is also an e-mail address given, but things sent there bounce back.
> If you know anyone associated with this organization, could you have them
> send me an e-mail.
>
> Russ
> kb0tvj
> Hi Russ,

You may contact Ken Noel, AJ0A at 402-536-2589. He works with the N0NWS
people during skywarn operations. He may use AJ0A@arrl.com, I am not sure.
If you don't have any luck, let me know and I will track him down.

Ken and a few of us are getting active in installing APRS WX stations with
grant money and the Valley NWS is interested in our data. All of this is new
to me, but quite fascinating as it ties in with my flying, etc.

Email me anytime.

Kevin Faris
KI0PY
kfaris@navix.net
work 888-345-6400 ext. 220

>
> ---
> You are currently subscribed to wxsig as: kfaris@navix.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

39. [wxsig] Re: 0/0 Wind Speed Problme - more thoughts

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Thu, 11 Jan 2001 17:49:06 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129228-2001.01.11-17.02.02--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> -----Original Message-----
> From:Russ Chadwick
> Sent: Wednesday, January 10, 2001 23:25 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: 0/0 Wind Speed Problme - more thoughts
> Brian,
>
> The attached file shows your data packets that have appeared
> on aprs.net
> since midnight MST. It looks like the 0 values for velocity went away
> before the temperature went close to zero. We will keep an
> eye on this to
> see if funny things happen to your readings around 0 degrees.

  For once those data are probably valid ... the air got pretty calm for
a few hours .... but look back a day or so ago, and then back over the
last 30 days and you will see what I mean ....

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

40. [wxsig] AAG weather stations have changed!

From: "William Beals" <will@beals5.com>
Date: Thu, 11 Jan 2001 20:36:42 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129248-2001.01.11-21.46.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

AAG has changed the hardware in their weather sensors to something that is
NOT compatible with the original Dallas weather sensor and therefore not
compatible with the T238!

They have changed the way the wind direction is read. In general it is a
change for the better, but it is different and the T238 does not (yet)
support the new sensor arrangement. If you have one on order, you will
regrettably need to be a bit patient while I get it will work with the T238.
Russ ordered one recently and when it arrived he realized the internal
hardware had changed. We had a hint this was coming, but thought it was a
bit further out. Russ is kindly sending me his unit so I can get the T238
software updated to support this new sensor set. Good news is that it is
different enough that I should be able to automatically detect which is
which during calibration without having to ask which kind of sensor unit you
have.

For those of you waiting for the humidity sensor support, I hope you
understand that this will need to wait a bit for this new AAG weather sensor
report. I have a few updates to the 1.11.0 release that will help some of
the folk using APRS formats at 2400 baud that I'll release this weekend.

will

==
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

41. [wxsig] Re: AAG weather stations have changed! (corrections)

From: "Russ Chadwick" <crb5@qwest.net>
Date: Thu, 11 Jan 2001 21:17:59 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129249-2001.01.11-22.30.55--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Two corrections to Will's message below. First, Aitor Arrieta, the
President of Automatizacion Aplicada a Gasolineras S.A. de C.V. , kindly
sent me a pre-production model of their redesigned 1-Wire weather station so
that we could modify the T-238 software for it. I did not order it as Will
says below, Aitor sent it to me without charge. I feel that this shows
their committment to this market and to TAPR's activities with the 1-Wire
weather station. I certainly want to thank Aitor for this weather station.

A second correction to Will's message below is that they still have weather
stations of the present design for sale. I'm sure that AAG will announce on
the wxsig when they have the redesigned version for sale.

Mechanically, the redesigned version is very close to the existing model.
The only difference that I can see is that the magnets are somewhat
different and attached to the crossarms differently. The single reed switch
for the wind speed is replaced with two closely spaced reed switches wired
in parallel. That provides redundancy to one of the items that gets lots of
cycles. If one switch fails open, the other one keeps working which should
improve the reliability. The eight reed switches for direction are mounted
the same way, but they are read in a very clever way using a 1-Wire DS2450
quad A/D converter. This should reduce the errors in the wind direction
measurement.

The PC board is exactly the same size and shape as the original and the
general workmanship is to the same high quality that we saw for the units
purchased from Dallas Semiconductor. I am impressed with AAG's redesigned
1-Wire weather station.

Russ
kb0tvj

----- Original Message -----
From: William Beals <will@beals5.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>

Sent: Thursday, January 11, 2001 8:36 PM
Subject: [wxsig] AAG weather stations have changed!

> Folks:
>
> AAG has changed the hardware in their weather sensors to something that is
> NOT compatible with the original Dallas weather sensor and therefore not
> compatible with the T238!
>
> They have changed the way the wind direction is read. In general it is a
> change for the better, but it is different and the T238 does not (yet)
> support the new sensor arrangement. If you have one on order, you will
> regrettably need to be a bit patient while I get it will work with the
T238.
> Russ ordered one recently and when it arrived he realized the internal
> hardware had changed. We had a hint this was coming, but thought it was a
> bit further out. Russ is kindly sending me his unit so I can get the T238
> software updated to support this new sensor set. Good news is that it is
> different enough that I should be able to automatically detect which is
> which during calibration without having to ask which kind of sensor unit
you
> have.
>
> For those of you waiting for the humidity sensor support, I hope you
> understand that this will need to wait a bit for this new AAG weather
sensor
> report. I have a few updates to the 1.11.0 release that will help some of
> the folk using APRS formats at 2400 baud that I'll release this weekend.
>
> will
>
> ==
> This message sent using 100% recycled electrons.
> (minimum 30% post-consumer)
> ==
> Will Beals
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

42. [wxsig] Fw: AAG weather stations have changed!

From: "Aitor Arrieta" <aag@aag.com.mx>
Date: Fri, 12 Jan 2001 09:21:56 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: "infoaag" <infoaag@aag.com.mx>
Message-ID: <LYR15067-129296-2001.01.12-09.41.27--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi my name is Aitor Arrieta (XE1YAW) and I am the CEO of Automatizacion
Aplicada a Gasolineras S.A. de C.V., the company who now is building the
1-Wire Weather station based on the original Dallas Semic Design, and I am
sending you this e-mail to clarify this situation.
All the time we are trying to improve our products and the 1-Wire Weather
instrument is not the exception. We have plans to introduce a new model
named V3.0 by the end of March.
The only diference between this new model (V3.0) and the actual one (V2.0)
is that we changed the way wind direction is codified. Instead of using a
set of eight DS2401 and one DS2406 we are using just one DS2450. That means
that the software for wind direction for version 2.0 is diferent from the
one from new version 3. The rest of the instrument is exactly the same.
For that reason we have sent some samples to the people that, from our
personal point of view, are working on 1-Wire Weather station software
proyects with good acceptance between users, mainly to let them be updated
and be prepared for the change. Personally as a ham radio (XE1YAW) I like
very much the job done for the T238 team, for that reason we sent one of the

new instruments to them, to let them "play with it" before it is
commercially released.
The actual instrument (V2.0) is going to be available for some time, and the
when the V3.0 become available it is going to be clearly indicated and
labeled and announced.
We really expect for the software developers to maintain compatibility
between both versions, from the software point of view is very easy to
distinguish which version is installed, but this is their decision to do
that.
>From the user point of view both versions are the same. I know some people
may think now, why if the both versions are more or less the same they are
making this change? One of the reasons is because when the original design
(the one based on the DS2401) was made (1998) the DS2450 was not available,
now that it is and we can replace 9 ICs with just 1 IC plus some resistors
(try to keep the original $79.00 price is not one easy task).
If somebody wants more information or have any comments or questions please
contact us. We are making a big effort to continue with the idea developed
by Dallas Semic to make a very affordable serious weather instruments. If
you have ideas or comments to improve the product let us know.
Thank you for your time, and sorry for my spanglish
Best Regards
Aitor Arrieta G.

----- Original Message -----
From: "William Beals" <will@beals5.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Thursday, January 11, 2001 9:36 PM
Subject: [wxsig] AAG weather stations have changed!

> Folks:
>
> AAG has changed the hardware in their weather sensors to something that is
> NOT compatible with the original Dallas weather sensor and therefore not
> compatible with the T238!
>
> They have changed the way the wind direction is read. In general it is a
> change for the better, but it is different and the T238 does not (yet)
> support the new sensor arrangement. If you have one on order, you will
> regrettably need to be a bit patient while I get it will work with the
T238.
> Russ ordered one recently and when it arrived he realized the internal
> hardware had changed. We had a hint this was coming, but thought it was a
> bit further out. Russ is kindly sending me his unit so I can get the T238
> software updated to support this new sensor set. Good news is that it is
> different enough that I should be able to automatically detect which is
> which during calibration without having to ask which kind of sensor unit
you
> have.
>
> For those of you waiting for the humidity sensor support, I hope you
> understand that this will need to wait a bit for this new AAG weather
sensor
> report. I have a few updates to the 1.11.0 release that will help some of
> the folk using APRS formats at 2400 baud that I'll release this weekend.
>
> will
>
> ==
> This message sent using 100% recycled electrons.
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> ==
> Will Beals
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
>
> ---
> You are currently subscribed to wxsig as: aag@aag.com.mx
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

43. [wxsig] Re: AAG weather stations have changed! (corrections)

From: "Aitor Arrieta" <aag@aag.com.mx>
Date: Fri, 12 Jan 2001 09:26:11 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129298-2001.01.12-09.56.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thank you for your comments Russ, if you need anything else please let me
know :-)
Aitor Arrieta
----- Original Message -----
From: "Russ Chadwick" <crb5@qwest.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Thursday, January 11, 2001 10:17 PM
Subject: [wxsig] Re: AAG weather stations have changed! (corrections)

> Two corrections to Will's message below. First, Aitor Arrieta, the
> President of Automatizacion Aplicada a Gasolineras S.A. de C.V. , kindly
> sent me a pre-production model of their redesigned 1-Wire weather station
so
> that we could modify the T-238 software for it. I did not order it as
Will
> says below, Aitor sent it to me without charge. I feel that this shows
> their committment to this market and to TAPR's activities with the 1-Wire
> weather station. I certainly want to thank Aitor for this weather
station.
>
> A second correction to Will's message below is that they still have
weather
> stations of the present design for sale. I'm sure that AAG will announce
on
> the wxsig when they have the redesigned version for sale.
>
> Mechanically, the redesigned version is very close to the existing model.
> The only difference that I can see is that the magnets are somewhat
> different and attached to the crossarms differently. The single reed
switch
> for the wind speed is replaced with two closely spaced reed switches wired
> in parallel. That provides redundancy to one of the items that gets lots
of
> cycles. If one switch fails open, the other one keeps working which
should
> improve the reliability. The eight reed switches for direction are
mounted
> the same way, but they are read in a very clever way using a 1-Wire DS2450
> quad A/D converter. This should reduce the errors in the wind direction
> measurement.
>
> The PC board is exactly the same size and shape as the original and the
> general workmanship is to the same high quality that we saw for the units
> purchased from Dallas Semiconductor. I am impressed with AAG's redesigned
> 1-Wire weather station.
>
> Russ
> kb0tvj
>
> ----- Original Message -----
> From: William Beals <will@beals5.com>
> To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
> Sent: Thursday, January 11, 2001 8:36 PM
> Subject: [wxsig] AAG weather stations have changed!
>
>
> > Folks:
> >
> > AAG has changed the hardware in their weather sensors to something that
is
> > NOT compatible with the original Dallas weather sensor and therefore not
> > compatible with the T238!
> >
> > They have changed the way the wind direction is read. In general it is
a
> > change for the better, but it is different and the T238 does not (yet)
> > support the new sensor arrangement. If you have one on order, you will
> > regrettably need to be a bit patient while I get it will work with the
> T238.
> > Russ ordered one recently and when it arrived he realized the internal
> > hardware had changed. We had a hint this was coming, but thought it was

a
> > bit further out. Russ is kindly sending me his unit so I can get the
T238
> > software updated to support this new sensor set. Good news is that it
is
> > different enough that I should be able to automatically detect which is
> > which during calibration without having to ask which kind of sensor unit
> you
> > have.
> >
> > For those of you waiting for the humidity sensor support, I hope you
> > understand that this will need to wait a bit for this new AAG weather
> sensor
> > report. I have a few updates to the 1.11.0 release that will help some
of
> > the folk using APRS formats at 2400 baud that I'll release this weekend.
> >
> > will
> >
> > ===
> > This message sent using 100% recycled electrons.
> > (minimum 30% post-consumer)
> > ===
> > Will Beals
> > 15014 East Idaho Place
> > Aurora, CO 80012
> > 303-755-0293
> > will@beals5.com
> >
> >
> > ---
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> >
> >
>
>
> ---
> You are currently subscribed to wxsig as: aag@aag.com.mx
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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

44. [wxsig] Re: Fw: AAG weather stations have changed!

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Fri, 12 Jan 2001 11:25:14 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129306-2001.01.12-11.37.41--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Aitor,

Thanks for your efforts to provide a reliable, functional and affordable
weather station.

Rich Beckwith - Wn0x

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

45. [wxsig] Re: AAG weather stations have changed! (corrections)

From: "Donald Dillaby" <ddillaby@mediaone.net>
Date: Fri, 12 Jan 2001 20:05:20 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129330-2001.01.12-19.18.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Just curious as to whether there will be a way to retrofit the dalsemi wx
station to the new AAG version?

Don
----- Original Message -----
From: "Aitor Arrieta" <aag@aag.com.mx>

To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Friday, January 12, 2001 10:26 AM
Subject: [wxsig] Re: AAG weather stations have changed! (corrections)

> Thank you for your comments Russ, if you need anything else please let me
> know :-)
> Aitor Arrieta
> ----- Original Message -----
> From: "Russ Chadwick" <crb5@qwest.net>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Thursday, January 11, 2001 10:17 PM
> Subject: [wxsig] Re: AAG weather stations have changed! (corrections)
>
>
> > Two corrections to Will's message below. First, Aitor Arrieta, the
> > President of Automatizacion Aplicada a Gasolineras S.A. de C.V. , kindly
> > sent me a pre-production model of their redesigned 1-Wire weather
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> so
> > that we could modify the T-238 software for it. I did not order it as
> Will
> > says below, Aitor sent it to me without charge. I feel that this shows
> > their committment to this market and to TAPR's activities with the
1-Wire
> > weather station. I certainly want to thank Aitor for this weather
> station.
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> > A second correction to Will's message below is that they still have
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> > stations of the present design for sale. I'm sure that AAG will
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> >
> > Mechanically, the redesigned version is very close to the existing
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> > The only difference that I can see is that the magnets are somewhat
> > different and attached to the crossarms differently. The single reed
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> > for the wind speed is replaced with two closely spaced reed switches
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> > in parallel. That provides redundancy to one of the items that gets
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> > cycles. If one switch fails open, the other one keeps working which
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> > the same way, but they are read in a very clever way using a 1-Wire
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> > quad A/D converter. This should reduce the errors in the wind direction
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> > The PC board is exactly the same size and shape as the original and the
> > general workmanship is to the same high quality that we saw for the
units
> > purchased from Dallas Semiconductor. I am impressed with AAG's
redesigned
> > 1-Wire weather station.
> >
> > Russ
> > kb0tvj
> >
> > ----- Original Message -----
> > From: William Beals <will@beals5.com>
> > To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
> > Sent: Thursday, January 11, 2001 8:36 PM
> > Subject: [wxsig] AAG weather stations have changed!
> >
> >
> > > Folks:
> > >
> > > AAG has changed the hardware in their weather sensors to something
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> is
> > > NOT compatible with the original Dallas weather sensor and therefore
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> > > compatible with the T238!

> > >
> > > They have changed the way the wind direction is read. In general it
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> a
> > > change for the better, but it is different and the T238 does not (yet)
> > > support the new sensor arrangement. If you have one on order, you
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> > > regrettably need to be a bit patient while I get it will work with the
> > T238.
> > > Russ ordered one recently and when it arrived he realized the internal
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> a
> > > bit further out. Russ is kindly sending me his unit so I can get the
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> > > software updated to support this new sensor set. Good news is that it
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> > > different enough that I should be able to automatically detect which
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> > > which during calibration without having to ask which kind of sensor
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> > you
> > > have.
> > >
> > > For those of you waiting for the humidity sensor support, I hope you
> > > understand that this will need to wait a bit for this new AAG weather
> > sensor
> > > report. I have a few updates to the 1.11.0 release that will help
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> of
> > > the folk using APRS formats at 2400 baud that I'll release this
weekend.
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> > > will
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> > > ==
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> > > ==
> > > Will Beals
> > > 15014 East Idaho Place
> > > Aurora, CO 80012
> > > 303-755-0293
> > > will@beals5.com
> > >
> > >
> > > ---
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> > >
> >
> >
> > ---
> > You are currently subscribed to wxsig as: aag@aag.com.mx
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
> ---
> You are currently subscribed to wxsig as: ddillaby@mediaone.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

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46. [wxsig] Fw: [weather] DS18X20 Temp sensors - what's the real story?

From: "Russ Chadwick" <crb5@qwest.net>
Date: Fri, 12 Jan 2001 19:46:25 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129338-2001.01.12-20.59.20--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This item appeared on the Dallas Semiconductor e-mail reflector today. It
is a brief discussion of the status of their temperature sensors. The
DS1820 was the sensor that was originally used on the 1-Wire weather
station. However, they replaced that one with the DS18S20. The T-238 works

with either of them.

Russ
kb0tvj
>
>
> > -----Original Message-----
> > From: David Smiczek [SMTP:david.smiczek@dalsemi.com]
> > Sent: Thursday, January 11, 2001 4:42 PM
> > To: weather@dalsemi.com
> > Subject: [weather] DS18X20 Temp sensors - what's the real story?
> >
> > From thermal.support@dalsemi.com
> >
> > The DS1820 is obsolete. Distributors may have inventory, but it is
> > likely very limited. Dallas will not be making any more DS1820. The
> > SSOP package option for the DS1820 has been discontinued. The PR-35
> > package option of the DS1820 has been replaced by the TO-92 DS18S20,
> > which uses the same pinout/footprint. The DS18S20 is also offered in a
> > 150mil SOIC (DS18S20Z) to support customers with SMT requirements; the
> > DS18S20 will not be offered in the SSOP. If customers have firmware
> > already written for the DS1820, and they do not wish to or cannot change
> > it, the replacement part is either of the DS18S20 package options.
> >
> > For new designs or DS1820 designs for which firmware can change, the
> > DS18B20 is recommended. It is offered in the same packages with the
> > same pinout as the DS18S20; in addition, it is offered in a die-sized
> > package (DS18B20X). The DS18B20 gives customers the ability to choose
> > resolution (9-12 bits) by setting EEPROM configuration bits; higher
> > resolution increases conversion time approximately 2x for each
> > additional bit. In addition, the DS18B20 protocol will be implemented
> > in a lower cost, reduced accuracy 1-wire sensor that has no EEPROM, the
> > DS1822. This will allow interchangeability, depending upon the cost
> > sensitivity and accuracy requirements of a given application. No such
> > reduced accuracy option is planned to be compatible with the DS18S20.
> >
> > The DS1822 is still in the development stage. As it does not have
> > EEPROM, its calibration method is different than the DS18x20; thus the
> > delay in the release to production. We are hopeful it will be released
> > in 2Q01. In the meantime, small quantities of samples are available by
> > calling the factory.
> >
> > Demand has been extremely high on almost all package options of the
> > DS18S20 and DS18B20 over the past few months since it was released to
> > production. The wafer is defined as a B20 or an S20 at laser, and of
> > course the assembly occurs immediately after the laser step. Because
> > the personality of the device is determined relatively early in the
> > manufacturing process, it is recommended that orders be placed with at
> > least 12 weeks leadtime, at least until an inventory is built up for all
> > flavors.
> >

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

47. [wxsig] Oops!

From: "William Beals" <will@beals5.com>
Date: Fri, 12 Jan 2001 20:55:27 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129343-2001.01.12-22.05.27--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks (and specifically Aitor):

OOPS! When Russ said he received a unit I thought he had purchased it and
started to panic. I normally confirm stuff with him first when things seem
strange and I did not in this case. Poor judgment in my case.

Now that I know the context, I very much appreciate the advance warning you
are giving us so we can be prepared for the new Version 3.0 hardware. We
will be ready for it by the time you will be ready for production.

will

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Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

48. [wxsig] Re: AAG weather stations have changed! (corrections)

From: "Russ Chadwick" <crb5@qwest.net>
Date: Fri, 12 Jan 2001 21:46:48 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129346-2001.01.12-22.59.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

----- Original Message -----
From: Donald Dillaby <ddillaby@mediaone.net>
Subject: [wxsig] Re: AAG weather stations have changed! (corrections)

> Just curious as to whether there will be a way to retrofit the dalsemi wx
> station to the new AAG version?
>
> Don

It looks to me like the boards are interchangeable. They are the same except some components have changed. We will check whether old and new housings and old and new PCBs are interchangeable. If your original model was working well, I don't think there would be a reason to change.

However, if you had a close lightning strike and your weather station became a little flakey, that would be a good reason to change to the new version. Also, if water got into the unit and the performance went down, that might be another reason to change.

The T-238 will most likely support both units and that will be transparent to the user.

Russ
kb0tvj

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

49. [wxsig] pressure reporting

From: "Clay Bartholow" <w0led@arrl.net>
Date: Sun, 14 Jan 2001 9:55:23
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129460-2001.01.14-10.08.22--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'll direct this to Will and Russ but anyone else can chime in. In Russ's daily report of the "e1w"-reporting wx stations I notice that some of the station reports show barometric pressure (I believe I'm interpreting that correctly.) Since there is not yet a DalSemi 1-wire bp sensor I'm wondering:

1) what is being used? Is this the DS2438/MPX4115A combo that Rich Beckwith talked about a few months back or is it something else?

2) I didn't think that the T238 supported BP reporting yet. Am I wrong?

Any comments would be appreciated.

73

Clay W0LED

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

50. [wxsig] Re: pressure reporting

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sun, 14 Jan 2001 09:26:32 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129461-2001.01.14-10.39.31--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

----- Original Message -----
From: Clay Bartholow <w0led@arrl.net>
Subject: [wxsig] pressure reporting

> I'll direct this to Will and Russ but anyone else can chime in. In Russ's
> daily report of the "e1w"-reporting wx stations I notice that some of the
> station reports show barometric pressure (I believe I'm interpreting that
> correctly.)

I don't think that there have been any barometric pressure reports yet.
They start with B. You might be referring to the P000 which is the total
precipitation since local midnight in hundredths of inches. Also, r000 is
the precipitation rate in hundredths of inches during last hour.

> 2) I didn't think that the T238 supported BP reporting yet. Am I wrong?
>

That's correct. When Dallas Semiconductor has a 1-Wire barometric pressure
for sale, the T-238 will support it. Right now, Will is working to modify
the T-238 software so that it can read the relative humidity sensor which
Dallas Semi has for sale.

Russ
kb0tvj

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

51. [wxsig] Re: pressure reporting

From: "Clay Bartholow" <w0led@arrl.net>
Date: Sun, 14 Jan 2001 11:59:19
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129472-2001.01.14-12.12.21--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks Russ,

I just looked this up in the APRS spec and I feel so (duh!?!) stupid. But
you beat me to the punch and I appreciate the feedback nevertheless.

73

Clay W0LED

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

52. [wxsig] 1.11.1 Release

From: "William Beals" <will@beals5.com>
Date: Sun, 14 Jan 2001 19:42:30 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-129566-2001.01.14-20.52.38--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

I put the 1.11.1 release up on the website (http://www.beals5.com/wx) this
evening. This has a few incremental fixes to the 1.11.0 release, mainly
having to do with cleaning up the UART stuff. The changes are as follows:

1) Fixed a bug where some long APRS strings got truncated at 2400 baud
2) Now all strings work at all baud rates
3) Got rid of AUTO setting for baud rates, explicit baud rates only.
4) Better explained what the wdoff variable is in wireids.asm for
adventurous folk.
5) Fixed minor bug where -68 displayed for min temp on LCD if wrong temp
sensor.

This is a pretty minor release, so if you are not experiencing any of the
problems fixed above, it may be skipped.

will

==========
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(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

53. [wxsig] T238 with Hygrometer

From: "Mark Phillips" <g7ltt@g7ltt.com>
Date: Thu, 18 Jan 2001 07:34:57 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130058-2001.01.18-06.46.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Folks,

DalSemi are selling a Hygrometer (DS-ADI-401) in an Ibutton type case. Is
this usable with the T238 and if so where does the data get displayed. If
not. Will it be? I'd be willing to donate one to the development cause to
help it along.

Mark Phillips, G7LTT/KC2ENI
New York, NY - 11103
40' 45.781N 073' 54.472W
http://www.g7ltt.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

54. [wxsig] RE: T238 with Hygrometer

From: "William Beals" <will@beals5.com>
Date: Thu, 18 Jan 2001 22:17:42 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130204-2001.01.18-23.28.08--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mark:

The Hygrometer I have for developing my code is not in a button, it is on a
little PCB that is about 1/2 inch by 3/4 inch with two wires sticking out.
Sort of a miniature version of the rain detector and without any black goop
coating on it. The circuitry is certainly small enough to fit inside an
ibutton if they did a bit more miniaturizing. I am assuming the two
hygrometers have the same circuitry and just different packaging.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Mark Phillips
Sent: Thursday, January 18, 2001 5:35 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] T238 with Hygrometer

Hi Folks,

DalSemi are selling a Hygrometer (DS-ADI-401) in an Ibutton type case. Is
this usable with the T238 and if so where does the data get displayed. If
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Mark Phillips, G7LTT/KC2ENI
New York, NY - 11103
40' 45.781N 073' 54.472W
http://www.g7ltt.com

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You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

55. [wxsig] RE: T238 with Hygrometer

From: "Mark Phillips" <g7ltt@g7ltt.com>
Date: Fri, 19 Jan 2001 07:13:13 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130244-2001.01.19-06.24.27--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I guess they are the same. However, I may have been a bit premature in my
offer as I have discovered that DalSemi have delayed releasing the new
button until April. I have ordered 2 of the current models just in case
another was needed by you chaps for development.

One of these days I'll learn to code for myself. Whomever heard of an IT
manager that can't code?!

Mark Phillips, G7LTT/KC2ENI
New York, NY - 11103
40' 45.781N 073' 54.472W
http://www.g7ltt.com

----- Original Message -----
From: "William Beals" <will@beals5.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Friday, January 19, 2001 12:17 AM
Subject: [wxsig] RE: T238 with Hygrometer

> Mark:
>
> The Hygrometer I have for developing my code is not in a button, it is on
a
> little PCB that is about 1/2 inch by 3/4 inch with two wires sticking out.
> Sort of a miniature version of the rain detector and without any black
goop
> coating on it. The circuitry is certainly small enough to fit inside an
> ibutton if they did a bit more miniaturizing. I am assuming the two
> hygrometers have the same circuitry and just different packaging.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Mark Phillips
> Sent: Thursday, January 18, 2001 5:35 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] T238 with Hygrometer
>
>
>
> Hi Folks,
>
> DalSemi are selling a Hygrometer (DS-ADI-401) in an Ibutton type case. Is
> this usable with the T238 and if so where does the data get displayed. If
> not. Will it be? I'd be willing to donate one to the development cause to
> help it along.
>
> Mark Phillips, G7LTT/KC2ENI
> New York, NY - 11103
> 40' 45.781N 073' 54.472W
> http://www.g7ltt.com

>
>
>
> ---
> You are currently subscribed to wxsig as: will@beals5.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
> ---
> You are currently subscribed to wxsig as: g7ltt@g7ltt.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

56. [wxsig] RE: T238 with Hygrometer

From: "William Beals" <wmbeals@compuserve.com>
Date: Fri, 19 Jan 2001 21:59:11 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130371-2001.01.19-23.18.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mark:

Bummer on the delay until April. Once I get the code for the PCB-based
hygrometer working, I may take you up on the offer to borrow one for a bit
and make sure the two behave identically. The code is going to be tricky as
it is a bunch of floating point math that I'll need to convert to
fixed-point math in assembly language. Here is where I REALLY wished I had
bitten the bullet earlier and sprung for a C compiler. Oh well, at least it
will be a character-building exersize. I hope to start the coding this
weekend.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Mark Phillips
Sent: Friday, January 19, 2001 5:13 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: T238 with Hygrometer

I guess they are the same. However, I may have been a bit premature in my
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button until April. I have ordered 2 of the current models just in case
another was needed by you chaps for development.

One of these days I'll learn to code for myself. Whomever heard of an IT
manager that can't code?!

Mark Phillips, G7LTT/KC2ENI
New York, NY - 11103
40' 45.781N 073' 54.472W
http://www.g7ltt.com

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From: "William Beals" <will@beals5.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Friday, January 19, 2001 12:17 AM
Subject: [wxsig] RE: T238 with Hygrometer

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> Sort of a miniature version of the rain detector and without any black
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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

57. [wxsig] APRSWXNET News

From: "Russ Chadwick" <crb5@qwest.net>
Date: Fri, 19 Jan 2001 22:29:45 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130372-2001.01.19-23.43.03--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The Local Area Prediction System (LAPS) is a numerical weather prediction
(NWP) program that runs operationally at the Forecast System Lab in Boulder,
CO. LAPS is described in detail on this web page:

http://laps.fsl.noaa.gov/

To see various forecast products click on "LAPS Real-time Analyses and
Forecasts" on the above web page.

Recently, APRSWXNET data became part of the initialization data for LAPS. I
believe that this is the first time that amateur radio weather data has been
used in operational numerical weather prediction in the United States. If
the data is of sufficient quality to help the model, it will continue to be
used. Hopefully, APRSWXNET data will also be used in other models in the
future.

This achievement was not possible without the hard work and programming
skill of Steve Dimse, whose findu.com server collects the amateur radio
weather data and makes it available every 15 minutes to NOAA's Forecast
Systems Lab for use in weather research and operations.

If you operate a APRS weather station and if this URL shows your weather
data,

http://wx.findu.com/your_callsign

then you can contribute weather data to APRSWXNET. Just send me an e-mail
and I'll send you back the information.

Russ
kb0tvj

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

58. [wxsig] Re: APRSWXNET News

From: Steve Dimse <k4hg@tapr.org>
Date: Sat, 20 Jan 2001 00:35:48 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130373-2001.01.19-23.49.04--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 1/20/01 12:29 AM Russ Chadwick (crb5@qwest.net) wrote:

>then you can contribute weather data to APRSWXNET. Just send me an e-mail
>and I'll send you back the information.
>
I hope you posted this on the aprssig as well...

Steve K4HG

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

59. [wxsig] Re: APRSWXNET News

From: calfano <calfano3@optonline.net>
Date: Sat, 20 Jan 2001 07:39:57 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: carl evert <ceve914@aol.com>, john n2nsa <n2nsa@maestro.com>,
        joeya albertus <kb2qle@optonline.net>, dand <dand@cloud9.net>
Message-ID: <LYR15067-130400-2001.01.20-06.52.51--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ,

        If you could send the info to me. I would like to be included

73
Charlie
WA2GUG

Russ Chadwick wrote:
>
> The Local Area Prediction System (LAPS) is a numerical weather prediction
> (NWP) program that runs operationally at the Forecast System Lab in Boulder,
> CO. LAPS is described in detail on this web page:
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> used. Hopefully, APRSWXNET data will also be used in other models in the
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> This achievement was not possible without the hard work and programming
> skill of Steve Dimse, whose findu.com server collects the amateur radio
> weather data and makes it available every 15 minutes to NOAA's Forecast
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> http://wx.findu.com/your_callsign
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> then you can contribute weather data to APRSWXNET. Just send me an e-mail
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>
> Russ
> kb0tvj
>
> ---
> You are currently subscribed to wxsig as: wa2gug@arrl.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
[Attachment: calfano3.vcf; text/x-vcard; 156 bytes]

60. [wxsig] RE: T238 with Hygrometer

From: "Mark Phillips" <g7ltt@g7ltt.com>
Date: Sat, 20 Jan 2001 08:58:13 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130412-2001.01.20-08.09.26--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

C compiler? Why buy one when you can get loads of free ones including the
excellent GCC that is supplied with Linux?

I'll send you the hygrometer as soon as you require it. I ordered it on
Wednesday so I'm still waiting for it.

Mark

----- Original Message -----
From: "William Beals" <wmbeals@compuserve.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Friday, January 19, 2001 11:59 PM
Subject: [wxsig] RE: T238 with Hygrometer

> Mark:
>
> Bummer on the delay until April. Once I get the code for the PCB-based
> hygrometer working, I may take you up on the offer to borrow one for a bit
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> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
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> Sent: Friday, January 19, 2001 5:13 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: T238 with Hygrometer
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> 40' 45.781N 073' 54.472W
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> From: "William Beals" <will@beals5.com>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Friday, January 19, 2001 12:17 AM
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>
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You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

61. [wxsig] Re: APRSWXNET News

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Date: Sat, 20 Jan 2001 08:06:51 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130413-2001.01.20-08.19.42--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ Chadwick wrote:
>
> The Local Area Prediction System (LAPS) is a numerical weather prediction
> (NWP) program that runs operationally at the Forecast System Lab in Boulder,
> CO. LAPS is described in detail on this web page:

>
> http://laps.fsl.noaa.gov/
>
> To see various forecast products click on "LAPS Real-time Analyses and
> Forecasts" on the above web page.
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> Recently, APRSWXNET data became part of the initialization data for LAPS. I
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> the data is of sufficient quality to help the model, it will continue to be
> used. Hopefully, APRSWXNET data will also be used in other models in the
> future.
>
> This achievement was not possible without the hard work and programming
> skill of Steve Dimse, whose findu.com server collects the amateur radio
> weather data and makes it available every 15 minutes to NOAA's Forecast
> Systems Lab for use in weather research and operations.

This is a really cool project. I had some hopes of implementing
something like this as a research program... you beat me to it!

I'm still looking at using "all sources of meteorlogical data" as input
to a mesonet nowcasting scenario with selectable and definable regions.
I guess I need to start writing so I can get it into the NSF mainstream
before you guys have another great idea!

Congratulations!

73, gerry
--
Gerry Creager -- gerry@cs.tamu.edu
Network Engineering |Research focusing on
Academy for Advanced Telecommunications |Satellite Geodesy and
and Learning Technologies |Geodetic Control
Texas A&M University   979.458.4020 (Phone) -- 979.847.8578 (Fax)

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

62. [wxsig] Re: APRSWXNET News

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sat, 20 Jan 2001 07:42:24 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130423-2001.01.20-08.55.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

----- Original Message -----
From: Steve Dimse <k4hg@tapr.org>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Friday, January 19, 2001 10:35 PM
Subject: [wxsig] Re: APRSWXNET News

> On 1/20/01 12:29 AM Russ Chadwick (crb5@qwest.net) wrote:
>
> >then you can contribute weather data to APRSWXNET. Just send me an
e-mail
> >and I'll send you back the information.
> >
> I hope you posted this on the aprssig as well...
>

The Lyris server wouldn't let me post the same message on both WXSIG and
APRSSIG, so I made minor changes to what I posted on WXSIG and sent that to
APRSSIG this morning.

Russ
kb0tvj

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

63. [wxsig] need help with THD-7 for weather station

From: "Tom ALexander" <evilone@coe.neu.edu>
Date: Sun, 21 Jan 2001 19:19:53

To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130633-2001.01.21-19.33.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello all,
I am a student at Northeastern U. in Boston, working on my senior design
project. I am building an APRS weather station with a THD-7A. Since all of
the protocol stuff is intended to be handled directly by a PIC MCU, I need
to be able to construct and send APRS packets byte by byte. Does anyone
know what command is needed to put the THD-7A into this mode? Thanks.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

64. [wxsig] RE: T238 with Hygrometer

From: "William Beals" <will@beals5.com>
Date: Sun, 21 Jan 2001 19:00:36 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130643-2001.01.21-20.10.53--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mark:

I'm not sure of any decent C compilers for the 6808 micro. I think the GCC
one is for the x86 processors--something my little 6808 will never be. I
should go poking around though, I suspect there may be a decent C compiler
for the 6808 though. The last time I looked there weren't any free ones and
it looked like the half-way respectable ones were around $300-$500.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Mark Phillips
Sent: Saturday, January 20, 2001 6:58 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: T238 with Hygrometer

C compiler? Why buy one when you can get loads of free ones including the
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I'll send you the hygrometer as soon as you require it. I ordered it on
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Sent: Friday, January 19, 2001 11:59 PM
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> Subject: [wxsig] RE: T238 with Hygrometer
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> 40' 45.781N 073' 54.472W
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> From: "William Beals" <will@beals5.com>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
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You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

65. [wxsig] RE: need help with THD-7 for weather station

From: "William Beals" <will@beals5.com>
Date: Sun, 21 Jan 2001 19:17:17 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130645-2001.01.21-20.27.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Tom:

I tried hooking up my weather station to the THD-7A and admit that it did not work "right out of the box". I have a way that seems to have worked with all the other TNCs I've dealt with, but it failed on the THD-7A. To be honest, when it didn't work I didn't pursue it any further as my weather station is very stationary and I use my THD-7A for mobile work.

The manuals that come with the THD-7A are pretty much useless for anyone who wants to do more than just use the radio as a receiver and basic messaging. If you go to the Kenwood website and poke around, that is where I found the "supplemental" manual that covered how to use the radio as a real TNC. As I remember it didn't mention how to send unconnected packets, but I may not have looked hard enough. Give that a stab, and if you still have trouble, give a shout on the reflector and I'll see if I can make sense of it.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Tom ALexander
Sent: Sunday, January 21, 2001 7:20 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] need help with THD-7 for weather station

Hello all,
I am a student at Northeastern U. in Boston, working on my senior design project. I am building an APRS weather station with a THD-7A. Since all of the protocol stuff is intended to be handled directly by a PIC MCU, I need to be able to construct and send APRS packets byte by byte. Does anyone know what command is needed to put the THD-7A into this mode? Thanks.

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

66. [wxsig] RE: need help with THD-7 for weather station

From: "Mark Phillips" <g7ltt@g7ltt.com>
Date: Mon, 22 Jan 2001 06:56:06 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130693-2001.01.22-06.07.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Why not run the radio in KISS mode and pre assemble the data in the PIC? At least that way you'll be able to use the project with every TNC on the planet as well as with the THD-7.

Mark Phillips, G7LTT/KC2ENI

New York, NY - 11103
40' 45.781N 073' 54.472W
http://www.g7ltt.com

----- Original Message -----
From: "William Beals" <will@beals5.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Sunday, January 21, 2001 9:17 PM
Subject: [wxsig] RE: need help with THD-7 for weather station

> Tom:
>
> I tried hooking up my weather station to the THD-7A and admit that it did
> not work "right out of the box". I have a way that seems to have worked
> with all the other TNCs I've dealt with, but it failed on the THD-7A. To
be
> honest, when it didn't work I didn't pursue it any further as my weather
> station is very stationary and I use my THD-7A for mobile work.
>
> The manuals that come with the THD-7A are pretty much useless for anyone
who
> wants to do more than just use the radio as a receiver and basic
messaging.
> If you go to the Kenwood website and poke around, that is where I found
the
> "supplemental" manual that covered how to use the radio as a real TNC. As
I
> remember it didn't mention how to send unconnected packets, but I may not
> have looked hard enough. Give that a stab, and if you still have trouble,
> give a shout on the reflector and I'll see if I can make sense of it.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Tom ALexander
> Sent: Sunday, January 21, 2001 7:20 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] need help with THD-7 for weather station
>
>
> Hello all,
> I am a student at Northeastern U. in Boston, working on my senior design
> project. I am building an APRS weather station with a THD-7A. Since all of
> the protocol stuff is intended to be handled directly by a PIC MCU, I need
> to be able to construct and send APRS packets byte by byte. Does anyone
> know what command is needed to put the THD-7A into this mode? Thanks.
>
> ---
> You are currently subscribed to wxsig as: will@beals5.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
> ---
> You are currently subscribed to wxsig as: g7ltt@g7ltt.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

67. [wxsig] RE: need help with THD-7 for weather station

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Mon, 22 Jan 2001 17:30:36 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130764-2001.01.22-16.44.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This should be a no-brainer. Now I will say up front that I have not
done this, but I have played slightly with the TASCO TNC in TNC mode
both on the D7 and D700. You need to set the T-238 to 9600 baud and
press the TNC button twice to go from TNC_OFF to APRS to TNC mode, at
that point you probably want to hook up a terminal and after setting in
your call/ssid turn off echo, monitor, etc. set beacons off as well,
then setup your T-238 to send location with weather data (1.10 or later

I think) and then hook the together and restart the T-238 so that when
it goes online it forces CONV mode. That should do it ....

> -----Original Message-----
> From: William Beals
> Sent: Sunday, January 21, 2001 21:17 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: need help with THD-7 for weather station
>
>
> Tom:
>
> I tried hooking up my weather station to the THD-7A and admit
> that it did
> not work "right out of the box". I have a way that seems to
> have worked
> with all the other TNCs I've dealt with, but it failed on the
> THD-7A. To be
> honest, when it didn't work I didn't pursue it any further as
> my weather
> station is very stationary and I use my THD-7A for mobile work.
>
> The manuals that come with the THD-7A are pretty much useless
> for anyone who
> wants to do more than just use the radio as a receiver and
> basic messaging.
> If you go to the Kenwood website and poke around, that is
> where I found the
> "supplemental" manual that covered how to use the radio as a
> real TNC. As I
> remember it didn't mention how to send unconnected packets,
> but I may not
> have looked hard enough. Give that a stab, and if you still
> have trouble,
> give a shout on the reflector and I'll see if I can make sense of it.
>
> will
>
> -----Original Message-----
> From: Tom ALexander
> Sent: Sunday, January 21, 2001 7:20 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] need help with THD-7 for weather station
>
>
> Hello all,
> I am a student at Northeastern U. in Boston, working on my
> senior design
> project. I am building an APRS weather station with a THD-7A.
> Since all of
> the protocol stuff is intended to be handled directly by a
> PIC MCU, I need
> to be able to construct and send APRS packets byte by byte.
> Does anyone
> know what command is needed to put the THD-7A into this mode? Thanks.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

68. [wxsig] RE: need help with THD-7 for weather station

From: "William Beals" <will@beals5.com>
Date: Mon, 22 Jan 2001 19:41:13 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130807-2001.01.22-20.51.23--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Brian:

When I tried, it was a while ago. My baud rates were fixed (and at 4800) at
the time. If that is all my problem was, that would be great. I really
should try this out again soon and see if it works.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org

[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Brian B. Riley
Sent: Monday, January 22, 2001 3:31 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: need help with THD-7 for weather station

This should be a no-brainer. Now I will say up front that I have not
done this, but I have played slightly with the TASCO TNC in TNC mode
both on the D7 and D700. You need to set the T-238 to 9600 baud and
press the TNC button twice to go from TNC_OFF to APRS to TNC mode, at
that point you probably want to hook up a terminal and after setting in
your call/ssid turn off echo, monitor, etc. set beacons off as well,
then setup your T-238 to send location with weather data (1.10 or later
I think) and then hook the together and restart the T-238 so that when
it goes online it forces CONV mode. That should do it ....

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

69. [wxsig] RE: need help with THD-7 for weather station

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Mon, 22 Jan 2001 23:16:38 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130810-2001.01.22-22.30.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> -----Original Message-----
> From: William Beals
> Sent: Monday, January 22, 2001 21:41 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: need help with THD-7 for weather station
>
>
> Brian:
>
> When I tried, it was a while ago. My baud rates were fixed
> (and at 4800) at
> the time. If that is all my problem was, that would be
> great. I really
> should try this out again soon and see if it works.
>
 THD7A and THD7A(G) are both fixed at 9600 baud on the computer side and
4800 on the GPS side

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

70. [wxsig] RE: need help with THD-7 for weather station

From: "Byon Garrabrant" <byon@mail.com>
Date: Mon, 22 Jan 2001 20:37:47 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130813-2001.01.22-22.51.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 22 Jan 2001, at 23:16, Brian B. Riley wrote:

> >
> > Brian:
> >
> > When I tried, it was a while ago. My baud rates were fixed
> > (and at 4800) at
> > the time. If that is all my problem was, that would be
> > great. I really
> > should try this out again soon and see if it works.
> >
> THD7A and THD7A(G) are both fixed at 9600 baud on the computer side
> and
> 4800 on the GPS side

My D7A(G) supports both 4800 baud (NMEA) and 9600 baud
(NMEA96) GPSs.

Byon

_____

Byon Garrabrant N6BG byon@mail.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

71. [wxsig] RE: need help with THD-7 for weather station

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Mon, 22 Jan 2001 23:52:44 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130819-2001.01.22-23.06.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> -----Original Message-----
> From: Byon Garrabrant
> Sent: Monday, January 22, 2001 23:38 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: need help with THD-7 for weather station

[snip]

> > THD7A and THD7A(G) are both fixed at 9600 baud on the computer side
> > and
> > 4800 on the GPS side
>
> My D7A(G) supports both 4800 baud (NMEA) and 9600 baud
> (NMEA96) GPSs.

... ooppps, yes, I forgot about that change, but the operative aspect
is the 9600 baud is fixed on the "PC" port. Its selectable on the D700
but not the D7.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

72. [wxsig] Re: wxsig digest: January 22, 2001

From: KB5OJR@aol.com
Date: Tue, 23 Jan 2001 23:43:38 EST
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130966-2001.01.23-22.57.17--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I've been watching this sig for a while now but havnet had the time to
get anything hooked to a radio. However, my peet bros ultimeter
has gone south a second time.....

Any advice on some other sensors/systems comparably priced that
I should get instead of having the ultimeter repaired ? (i think that will
mean trading it in on a new model).

thanks for any comments,

J.P.

73. [wxsig] Re: wxsig digest: January 22, 2001

From: "Russ Chadwick" <crb5@qwest.net>
Date: Tue, 23 Jan 2001 21:53:53 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-130968-2001.01.23-23.07.21--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'd suggest this for an outside sensor unit

http://www.aag.com.mx/weather.html

and this for the indor display and interface to your TNC

http://www.tapr.org/tapr/html/Ft238.html

More information on this combination is contained here

http://www.beals5.com/wx

Russ
kb0tvj

----- Original Message -----
From: KB5OJR@aol.com
To: TAPR WX Special Interest Group
Sent: Tuesday, January 23, 2001 9:43 PM
Subject: [wxsig] Re: wxsig digest: January 22, 2001

I've been watching this sig for a while now but havnet had the time to
get anything hooked to a radio. However, my peet bros ultimeter
has gone south a second time.....

Any advice on some other sensors/systems comparably priced that
I should get instead of having the ultimeter repaired ? (i think that will
mean trading it in on a new model).

thanks for any comments,

J.P.

74. [wxsig] Re: wxsig digest: January 22, 2001

From: Alan Heaberlin <w6amh@yahoo.com>
Date: Wed, 24 Jan 2001 21:55:20 -0800 (PST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-131127-2001.01.25-00.08.48--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In the past year I have seen a friends Peet Bros
anemometer fail at a mountaintop site twice. This is
apparently because it is too flimsy to stand up to the
wind here in the Mojave Desert. My Dallas unit (AAG
version) is stronger than all git-out. Peet should
upgrade to something more durable or alternatives
should be considered.
Alan Heaberlin W6AMH

--- KB5OJR@aol.com wrote:
> I've been watching this sig for a while now but
> havnet had the time to
> get anything hooked to a radio. However, my peet
> bros ultimeter
> has gone south a second time.....
>
> Any advice on some other sensors/systems comparably
> priced that
> I should get instead of having the ultimeter
> repaired ? (i think that will
> mean trading it in on a new model).
>
> thanks for any comments,
>
> J.P.
>

_____
Do You Yahoo!?
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http://auctions.yahoo.com/

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

75. [wxsig] Re: wxsig digest: January 22, 2001

From: Steve Dimse <k4hg@tapr.org>
Date: Thu, 25 Jan 2001 02:42:34 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-131144-2001.01.25-01.56.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 1/25/01 12:55 AM Alan Heaberlin (w6amh@yahoo.com) wrote:

>In the past year I have seen a friends Peet Bros
>anemometer fail at a mountaintop site twice. This is
>apparently because it is too flimsy to stand up to the
>wind here in the Mojave Desert. My Dallas unit (AAG
>version) is stronger than all git-out. Peet should
>upgrade to something more durable or alternatives
>should be considered.

An alternative view, my Peet U2k has been up 4 years, has survived 2
hurricanes (Georges winds > 100MPH for 8 hours, Irene only 80 for 3
hours), and has never failed. The 7 units owned by Monroe County (the
Keys) have all survived at least one bout of hurricane winds without a
problem (the TNCs are a chronic problem though!).

I had a Davis up for less than a year before that, it didn't even take a
hurricane to kill it.

The Dallas unit is indeed solid, but with the much greater wind area, I
could see it getting blown away in a hurricane. Hopefully I won't ever
get the chance to run a comparison ;-)

I think that like most things, there are some units that are just born to
trouble, it is a bit unfair to draw conclusions from a single unit...

Steve K4HG

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

76. [wxsig] Peet wind cups

From: Alan Heaberlin <w6amh@yahoo.com>
Date: Thu, 25 Jan 2001 07:04:09 -0800 (PST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-131161-2001.01.25-09.17.42--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Well, of course you're right about using a single
example to discount something that seems to work for
many. However, I still believe that relying upon the
little plastic tabs that hold the wind cups on to the
hub is insuficient. My friend will probably try epoxy
this time so he doesn't have to keep climbing 40 feet
up the side of a remote mountaintop radio tower to
snap in a new anemometer cup after a 4 hour drive.
The swept area of the Dallas unit is a bit more than
the Peet but if I'm in a hurricane, I'm more concerned
about the roof that supports my WX system! =□)
Alan Heaberlin

--- Steve Dimse <k4hg@tapr.org> wrote:
>
> An alternative view, my Peet U2k has been up 4
> years, has survived 2
> hurricanes (Georges winds > 100MPH for 8 hours,
> Irene only 80 for 3
> hours), and has never failed. The 7 units owned by
> Monroe County (the
> Keys) have all survived at least one bout of
> hurricane winds without a
> problem (the TNCs are a chronic problem though!).
>
> I had a Davis up for less than a year before that,
> it didn't even take a
> hurricane to kill it.
>
> The Dallas unit is indeed solid, but with the much
> greater wind area, I
> could see it getting blown away in a hurricane.
> Hopefully I won't ever
> get the chance to run a comparison ;-)
>
> I think that like most things, there are some units
> that are just born to
> trouble, it is a bit unfair to draw conclusions from
> a single unit...
>
> Steve K4HG
>
> ---
> You are currently subscribed to wxsig as:
> w6amh@yahoo.com
> To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
>

_____
Do You Yahoo!?
Yahoo! Auctions - Buy the things you want at great prices.
http://auctions.yahoo.com/

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

77. [wxsig] RE: T238 with Hygrometer

From: "Mark Phillips" <g7ltt@g7ltt.com>
Date: Wed, 31 Jan 2001 06:08:14 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-132101-2001.01.31-05.19.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I took delivery of 2 of the DalSemi Humidity sensor kits yesterday. How goes
it with the software?

Also, The kit has a light sensor on it. I assume that the more intense the
light the more volts it produces. What effect would installing the missing
820r have and would it be any use anyway?

Mark Phillips, G7LTT/KC2ENI
New York, NY - 11103
40' 45.781N 073' 54.472W
http://www.g7ltt.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

78. [wxsig] RE: RE: T238 with Hygrometer

From: "William Beals" <will@beals5.com>
Date: Wed, 31 Jan 2001 21:09:29 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-132231-2001.01.31-22.19.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mark:

I am working on the software to read the basic data out of the humidity
sensor right now. For some reason this is not going smoothly right now--I
expected getting the data would be the easy part. Russ forwarded me an
email from the dallas [weather] reflector that may help.

Of interest is the sensor assembly I'm playing with does not have a light
sensor in it, only humidity sensor and the internal temperature sensor for
offset stuff. I've read somewhere that the sensor is affected by light as
well as temperature. At least for the first round I won't be supporting the
light sensor part.

Do you have a schematic for your button sensor? It would be nice to confirm
the hardware for the board and button are similar for the sensors that are
common. If you have a URL for it that would be fine.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Mark Phillips
Sent: Wednesday, January 31, 2001 4:08 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: T238 with Hygrometer

I took delivery of 2 of the DalSemi Humidity sensor kits yesterday. How goes
it with the software?

Also, The kit has a light sensor on it. I assume that the more intense the
light the more volts it produces. What effect would installing the missing
820r have and would it be any use anyway?

Mark Phillips, G7LTT/KC2ENI
New York, NY - 11103
40' 45.781N 073' 54.472W
http://www.g7ltt.com

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

February 2001

Original source file: wxsig.0102
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0102

1. [wxsig] Humidity update

From: "William Beals" <will@beals5.com>
Date: Sat, 3 Feb 2001 18:44:10 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-132764-2001.02.03-19.54.19--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Just a quick update. I finally am getting reliable raw data out of the
humidity sensor. Now comes the fun part of converting the data to a
humidity reading. In C with floating math support this is a single line of
code. In 6808 assembly it is likely going to be several pages of code using
16-bit fixed-point arithmetic.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Re: Humidity update

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sat, 3 Feb 2001 20:17:43 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-132782-2001.02.03-20.30.44--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Holy Cow! Thats why I'm a 4gl programmer. I don't even think about FP
math.

>Folks:
>
>Just a quick update. I finally am getting reliable raw data out of the
>humidity sensor. Now comes the fun part of converting the data to a
>humidity reading. In C with floating math support this is a single line of
>code. In 6808 assembly it is likely going to be several pages of code
using
>16-bit fixed-point arithmetic.
>
>will
>
>==========
>This message sent using 100% recycled electrons.
>(minimum 30% post-consumer)
>==========
>Will Beals
>15014 East Idaho Place
>Aurora, CO 80012
>303-755-0293
>will@beals5.com
>
>
>---
>You are currently subscribed to wxsig as: wn0x@earthlink.net
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Re: Humidity update

From: Gerry Creager n5jxs <gerry@cs.tamu.edu>
Date: Sat, 03 Feb 2001 20:43:09 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-132791-2001.02.03-20.56.20--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Where's my cane? I'm feelin' real old right about now...

Rich Beckwith wrote:
>
> Holy Cow! Thats why I'm a 4gl programmer. I don't even think about FP
> math.
>
> >Folks:
> >
> >Just a quick update. I finally am getting reliable raw data out of the
> >humidity sensor. Now comes the fun part of converting the data to a
> >humidity reading. In C with floating math support this is a single line of
> >code. In 6808 assembly it is likely going to be several pages of code
> using
> >16-bit fixed-point arithmetic.
> >
> >will
--
Gerry Creager -- gerry@cs.tamu.edu
Network Engineering |Research focusing on
Academy for Advanced Telecommunications |Satellite Geodesy and
and Learning Technologies |Geodetic Control
Texas A&M University   979.458.4020 (Phone) -- 979.847.8578 (Fax)

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] Re: Humidity update

From: "Clay Bartholow" <w0led@arrl.net>
Date: Sun, 4 Feb 2001 5:5:55
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-132828-2001.02.04-05.20.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,
I hear ya and I sympathize. I just finished the first pass of some
assembler code for a PIC 16F84 I'm using in a digital barometer project.
The machine control stuff is ...yawn... but that math. And I was only
doing a little bit of multiplying and dividing. Hang in there.

Clay W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] Humidity in Peet format

From: "William Beals" <will@beals5.com>
Date: Mon, 5 Feb 2001 21:49:02 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-133214-2001.02.05-22.59.14--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

As I'm working through adding the humidity to the displays and strings I
noticed the Peet format has separate fields for indoor and outdoor humidity.
The APRS format isn't specific about it, just "humidity".

Unless any of you have any comments otherwise, I am going to assume you are
all interested in outdoor humidity only. Can't see any reason why you would
want to broadcast your indoor humidity to the planet.

will

==========
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==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] Re: Humidity in Peet format

From: Steve Dimse <k4hg@tapr.org>
Date: Tue, 6 Feb 2001 06:19:19 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-133246-2001.02.06-05.33.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 2/5/01 11:49 PM William Beals (will@beals5.com) wrote:

>As I'm working through adding the humidity to the displays and strings I
>noticed the Peet format has separate fields for indoor and outdoor humidity.
>The APRS format isn't specific about it, just "humidity".
>
Yes, it is outside humidity...

Steve K4HG

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] Low voltage warning

From: "William Beals" <will@beals5.com>
Date: Tue, 6 Feb 2001 20:43:17 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-133483-2001.02.06-21.53.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

I forgot to mention one other thing last night on the humidity sensor. It
appears to be very unforgiving of low bus voltages. My "development"
weather station (the one I have indoors for SW development instead of
outdoors broadcasting data) has a bus voltage problem much like the one
several of you have reported. My bus voltage drops from 4.7 volts to about
3.7 volts when I plug in the wind sensors. When the bus voltage drops, the
humidity reading I get increases by about 10%.

I don't know what the magic voltage is where the value is reliable but will
try to determine that. The humidity sensor works on a ratiometric voltage
and I measure both the local VCC as well as humidity sensor, so
theoretically this shouldn't be an issue. I suspect the trouble is that the
A/D converter spec says it doesn't work below 2.4V and there is a diode drop
from the bus voltage to the A/D voltage.

If you have a low bus voltage and plan on adding the humidity sensor, now
would be a good time to start thinking about isolating and fixing the bus.

will

==========
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(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] Re: Low voltage warning

From: "Rich Beckwith" <Rich@dps.state.mo.us>
Date: Wed, 07 Feb 2001 08:11:50 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-133562-2001.02.07-08.25.46--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Can I supply 5V to the sensor to eliminate this problem?

>>> will@beals5.com 02/06/01 09:43PM >>>
Folks:

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] Re: Low voltage warning

From: "William Beals" <will@beals5.com>
Date: Wed, 7 Feb 2001 20:32:13 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-133786-2001.02.07-21.42.18--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

I suspect there is a way to do it with the little standalone board I have.
The board and circuitry on it are pretty small, so the surgery to do it will
be precision stuff. Clearly for the sensor in the ibutton case this will
not be possible.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Rich Beckwith
Sent: Wednesday, February 07, 2001 7:12 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Low voltage warning

Can I supply 5V to the sensor to eliminate this problem?

>>> will@beals5.com 02/06/01 09:43PM >>>
Folks:

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] RS Temp sensor

From: Gary Arnold <garnold@naples.net>
Date: Thu, 08 Feb 2001 16:43:20 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-133989-2001.02.08-15.57.21--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does anyopne have any idea what the sensor is in the Radio Shack
910-4745 assembly (p. 242 in the 2001 catalog), or the 910-4917 (page
236). Is either an LM-355 by any chance? If not, anyone have a good
small quantity source for 355s?

--
Gary S. Arnold CEM/FPEM WB2WPA
Collier County Emergency Management
garnold@naples.net
Primary: http://www.collierem.org/
Mirror: http://www.colliergov.net/emergency/

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
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11. [wxsig] RE: RS Temp sensor

From: "William Beals" <will@beals5.com>
Date: Thu, 8 Feb 2001 17:53:01 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-134011-2001.02.08-19.03.08--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Gary:

I can't find a reference to an LM-355--even on nationals website. Are you
sure you don't mean the LM-35? (The radioshack website doesn't say)

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Gary Arnold
Sent: Thursday, February 08, 2001 2:43 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RS Temp sensor

Does anyopne have any idea what the sensor is in the Radio Shack
910-4745 assembly (p. 242 in the 2001 catalog), or the 910-4917 (page
236). Is either an LM-355 by any chance? If not, anyone have a good
small quantity source for 355s?

--
Gary S. Arnold CEM/FPEM WB2WPA
Collier County Emergency Management
garnold@naples.net
Primary: http://www.collierem.org/
Mirror: http://www.colliergov.net/emergency/

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] RE: RS Temp sensor

From: Gary Arnold <garnold@naples.net>
Date: Fri, 09 Feb 2001 08:22:52 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-134114-2001.02.09-07.36.52--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

You're right...blew the middle number. It's actually an LM335Z .

William Beals wrote:

> Gary:
>
> I can't find a reference to an LM-355--even on nationals website. Are you
> sure you don't mean the LM-35? (The radioshack website doesn't say)
>
> will
>
> Does anyopne have any idea what the sensor is in the Radio Shack
> 910-4745 assembly (p. 242 in the 2001 catalog), or the 910-4917 (page
> 236). Is either an LM-355 by any chance? If not, anyone have a good
> small quantity source for 355s?

--
Gary S. Arnold CEM/FPEM
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garnold@naples.net
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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

13. [wxsig] RE: RS Temp sensor

From: "William Beals" <wmbeals@compuserve.com>
Date: Fri, 9 Feb 2001 21:34:29 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-134257-2001.02.09-22.48.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Gary:

I've used Arrow Electronics (http://www.arrow.com) quite a bit for personal orders. I checked and they have the ability to order your parts online. It looks like they have both the National Parts as well as some ST microelectronics clones. Prices range from $3.50-ish to 89 cents. I'm sure that is for different grade parts and stuff. Arrow is nice in that they will accept credit card orders. I ordered all of my 68HC08 processors from them. They do have a hefty service charge for small orders--on the order of $20. They kind of bury it in "shipping and handling", but they all seem to do that.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Gary Arnold
Sent: Friday, February 09, 2001 6:23 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: RS Temp sensor

You're right...blew the middle number. It's actually an LM335Z .

William Beals wrote:

> Gary:
>
> I can't find a reference to an LM-355--even on nationals website. Are you
> sure you don't mean the LM-35? (The radioshack website doesn't say)
>
> will
>
> Does anyopne have any idea what the sensor is in the Radio Shack
> 910-4745 assembly (p. 242 in the 2001 catalog), or the 910-4917 (page
> 236). Is either an LM-355 by any chance? If not, anyone have a good
> small quantity source for 355s?

--
Gary S. Arnold CEM/FPEM
Collier County Emergency Management
garnold@naples.net
Primary: http://www.collierem.org/
Mirror: http://www.colliergov.net/emergency/

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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] Humidity sensor status

From: "William Beals" <will@beals5.com>
Date: Sun, 11 Feb 2001 20:39:33 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-134537-2001.02.11-21.50.26--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

I have the first round of humidity code up and running. It seems to behave

itself reasonably well. I'm going to let it run for a few days to make sure
it is reasonably stable and will put it up on the website after a few days.

will

==========
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==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] Re: Humidity sensor status

From: "Clay Bartholow" <w0led@arrl.net>
Date: Mon, 12 Feb 2001 10:49:55
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-134637-2001.02.12-11.04.14--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,
I was wondering if you had mounted the humidity sensor in a telephone line
coupler like DalSemi suggested or if you haven't taken it that far yet.
(If I read your RH correctly at 25% I'm assuming this is indoor RH for
now.)

Have you noticed the light sensitivity issue or are you protecting the
sensor from light in some way? Any idea how critical light shielding will
be?

Clay W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] Re: Humidity sensor status

From: "William Beals" <will@beals5.com>
Date: Mon, 12 Feb 2001 18:05:20 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-134714-2001.02.12-19.15.36--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay:

For now I have the sensor inside. I want to give it a day or so of a nice
controlled environment before I throw it out in the big bad outside world.

I have been engaged in heated internal debate about how to mount the sensor
(and the barometric sensor to come later). One idea is to make a box that
sits just outside my home office window that will work as an inline device.
This will keep the runs to the A/D converter short. This is a concern to me
as the voltage to the A/D converter seems to have a profound affect on its
accuracy. My other option is to make more of a breakout box arrangement at
the sensor set on top of my roof where I can more easily add and delete
sensors as needed. I'm not sure which I will do yet.

I have done some limited indoor experimenting with the sensor and so far see
no major effects. None of this is with sunlight though. It is my intention
with whatever solution I use above, to have a box that is pretty well
shielded from ambient light.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Clay Bartholow
Sent: Monday, February 12, 2001 10:50 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Humidity sensor status

Will,
I was wondering if you had mounted the humidity sensor in a telephone line coupler like DalSemi suggested or if you haven't taken it that far yet. (If I read your RH correctly at 25% I'm assuming this is indoor RH for now.)

Have you noticed the light sensitivity issue or are you protecting the sensor from light in some way? Any idea how critical light shielding will be?

Clay W0LED

You are currently subscribed to wxsig as: will@beals5.com
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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

17. [wxsig] Sun Angle Calculator

From: "Alan Mitchell" <amitchell@gci.net>
Date: Tue, 13 Feb 2001 22:35:28 -0900
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-134947-2001.02.14-01.50.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Richard,

An online calculator for calculating sun angles:

http://susdesign.com/sunangle/

--Alan
[Attachment: SunAngle.url; application/octet-stream; 132 bytes]

18. [wxsig] RE: 1.12.0 Release

From: TAPR <kc5goi@tapr.org>
Date: Wed, 14 Feb 2001 23:01:18 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135135-2001.02.14-23.15.50--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi guys. Will, I have been trying to update the code on my beta kit but have run into a problem. I am trying to power up the kit with up and down depressed but it is keeping the kit from booting up. I have to apologize for the fact that the code I am currently running is 1.06. I am wanting to get the kit on my WinAPRS setup but can not get it to spit out the Peet Bros data on J4. It will send out the 5 second average and the computer formats. I checked both ports for the formats and I have run out of ideas.

Guy

-----Original Message-----
From: William Beals [SMTP:will@beals5.com]
Sent: Wednesday, February 14, 2001 10:53 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] 1.12.0 Release

Folks:

The Rev 1.12.0 firmware release is up on the website (http://www.beals5.com/wx).

This is my first cut at humidity sensor support. If you don't have the sensor, I would not bother with the update as that is the only change. I don't have a lot of time with the sensor, but it seems to have been behaving
itself reasonably well this week. I am very much interested in feedback from the folk that have the sensors. There are probably some error conditions I have not anticipated and not seen yet, those kinds of things are of extreme interest.

Please note that based on my limited sampling, if your bus voltage is below 4V, you may not get accurate readings.

The display got crammed to put in all the data on to the existing set of screens. When the barometric sensor support starts, the screens will need

re-arranging.

will

==========
This message sent using 100% recycled electrons.
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Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

19. [wxsig] 1.12.0 Release

From: "William Beals" <will@beals5.com>
Date: Wed, 14 Feb 2001 21:52:54 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135134-2001.02.14-23.03.06--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

The Rev 1.12.0 firmware release is up on the website
(http://www.beals5.com/wx).

This is my first cut at humidity sensor support. If you don't have the
sensor, I would not bother with the update as that is the only change. I
don't have a lot of time with the sensor, but it seems to have been behaving
itself reasonably well this week. I am very much interested in feedback
from the folk that have the sensors. There are probably some error
conditions I have not anticipated and not seen yet, those kinds of things
are of extreme interest.

Please note that based on my limited sampling, if your bus voltage is below
4V, you may not get accurate readings.

The display got crammed to put in all the data on to the existing set of
screens. When the barometric sensor support starts, the screens will need
re-arranging.

will

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Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

20. [wxsig] New sensor

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Fri, 16 Feb 2001 14:15:53 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135557-2001.02.16-14.33.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

What is the Dallas part number for the new sensor used in 12-1-0
Is it an I button style case?
Bill N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

21. [wxsig] RE: 1.12.0 Release

From: "William Beals" <will@beals5.com>
Date: Fri, 16 Feb 2001 19:00:00 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135587-2001.02.16-20.10.52--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Guy:

On the older software (pre 1.08-ish I think), I did not have a nice debug screen that acknowledged you were in the download mode when you cycled power with the up/down buttons pressed. If after applying power you get the two rows of boxes, you should be in download mode. Note that the new download will not update the monitor, so you are stuck with this old way of doing things unless you completely reprogram the micro using the Motorola tools.

Don't forget to run MON08 from "pure" DOS mode, not a DOS window (full screen or not).

(sorry it took a day to get back to you, wasn't able to get to emails last night)

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of TAPR
Sent: Wednesday, February 14, 2001 10:01 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: 1.12.0 Release

Hi guys. Will, I have been trying to update the code on my beta kit but have run into a problem. I am trying to power up the kit with up and down depressed but it is keeping the kit from booting up. I have to apologize for the fact that the code I am currently running is 1.06. I am wanting to get the kit on my WinAPRS setup but can not get it to spit out the Peet Bros data on J4. It will send out the 5 second average and the computer formats. I checked both ports for the formats and I have run out of ideas.

Guy

-----Original Message-----
From: William Beals [SMTP:will@beals5.com]
Sent: Wednesday, February 14, 2001 10:53 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] 1.12.0 Release

Folks:

The Rev 1.12.0 firmware release is up on the website (http://www.beals5.com/wx).

This is my first cut at humidity sensor support. If you don't have the sensor, I would not bother with the update as that is the only change. I don't have a lot of time with the sensor, but it seems to have been behaving
itself reasonably well this week. I am very much interested in feedback from the folk that have the sensors. There are probably some error conditions I have not anticipated and not seen yet, those kinds of things are of extreme interest.

Please note that based on my limited sampling, if your bus voltage is below 4V, you may not get accurate readings.

The display got crammed to put in all the data on to the existing set of screens. When the barometric sensor support starts, the screens will need re-arranging.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========

Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: kc5goi@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

22. [wxsig] RE: New sensor

From: "William Beals" <will@beals5.com>
Date: Fri, 16 Feb 2001 18:59:56 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135586-2001.02.16-20.10.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill:

The humidity sensor seems to come in several flavors. The one I can find on the ibutton website is described at http://www.ibutton.com/weather/humidity.html. This particular one may not be available yet, but they also have a version on a stand-alone PCB with two wires coming out that looks much like the rain detector PCB. I "have it on good authority" that all of these sensors have the same core circuitry in them, only different packaging. One of the boards has an additional light sensor as the sensor is light sensitive, but my version does not have that.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Ellis
Sent: Friday, February 16, 2001 1:16 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] New sensor

What is the Dallas part number for the new sensor used in 12-1-0
Is it an I button style case?
Bill N5ZTW

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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

23. [wxsig] Re: T238 Status

From: "Mark Phillips" <g7ltt@g7ltt.com>
Date: Sat, 17 Feb 2001 22:36:54 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135748-2001.02.17-21.52.09--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I don't believe that you are getting spurious results, Will.

I have been watching the local METAR station (KLGA - La Guardia airport) reports for the last few days and their Humidity is all over the place too.

I wonder how much of it is due to the warm then cold weather we have been having here in the New York area. Currently I have 16F and 53% humidity. Earlier today I have 35F and 74% which looks like quite a swing. I'm assuming its right as one would expect a METAR station to know how to read

the weather.

Mark G7LTT

----- Original Message -----
From: "William Beals" <will@beals5.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Saturday, February 17, 2001 9:43 PM
Subject: [wxsig] T238 Status

> Folks:
>
> First a request, can I get feedback from the folk with humidity sensors,
> good or bad. I suspect I'm not getting reliable data yet. Looking at my
> data I've seen huge swings which I'm pretty certain are not accurate.
> Trouble is its easy to visualize and test wind, rain, and temperature.
> Humidity is a bit tougher.
>
> The Dallas folk seem to have consolidated a lot of their weather stuff on
to
> a single (large) page. This looks pretty comprehensive, referencing all
the
> various hardware sources, sensors available (or soon to be available), and
> where to get it all. The website is
> http://www.ibutton.com/weather/index.html
>
> Finally, a quick update on the AAG wind sensor support. I have the basic
> data gathering sort of working. It goes for a while then dies. The code
> is far from stable, but should hopefully be fairly stable soon.
>
> will
>
> ==
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> Will Beals
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
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> ---
> You are currently subscribed to wxsig as: g7ltt@g7ltt.com
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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

24. [wxsig] T238 Status

From: "William Beals" <will@beals5.com>
Date: Sat, 17 Feb 2001 19:43:38 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135741-2001.02.17-20.53.54--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

First a request, can I get feedback from the folk with humidity sensors,
good or bad. I suspect I'm not getting reliable data yet. Looking at my
data I've seen huge swings which I'm pretty certain are not accurate.
Trouble is its easy to visualize and test wind, rain, and temperature.
Humidity is a bit tougher.

The Dallas folk seem to have consolidated a lot of their weather stuff on to
a single (large) page. This looks pretty comprehensive, referencing all the
various hardware sources, sensors available (or soon to be available), and
where to get it all. The website is
http://www.ibutton.com/weather/index.html

Finally, a quick update on the AAG wind sensor support. I have the basic
data gathering sort of working. It goes for a while then dies. The code
is far from stable, but should hopefully be fairly stable soon.

will

==========
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Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

25. [wxsig] RE: Peet wind cups

From: "Dale Hardin" <dhardin@aginfotech.com>
Date: Sun, 18 Feb 2001 16:09:30 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135807-2001.02.18-07.24.54--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello Alan and Steve. I have the Peet Bros ws/wd unit and I think it is a simple and elegant design. However, I cannot keep my U2000 unit running consistently and reliably (I don't think this is a general problem with the Peet system, it just seems to be an intermittent connector problem somewhere that I haven't found yet). Steve, do you think that it would be useful for the T-238 software be modified to allow use of this sensor (or the measuring concept) with a one-wire interface so we can can toss the rest of the system and get a T-238 for our hurricane "studies" here in Florida? Hmm, a spot of epoxy cement might be just the ticket for keeping the Peet Bros unit from "flying off the handle" during a hurricane. Thanks for the tip Alan.
Regards to all, Dale

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

26. [wxsig] RE: Peet wind cups

From: Steve Dimse <sdimse@telocity.com>
Date: Sun, 18 Feb 2001 08:29:23 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135811-2001.02.18-07.44.02--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 2/18/01 4:09 PM Dale Hardin (dhardin@aginfotech.com) wrote:

>that I haven't found yet). Steve, do you think that it would be useful for
>the T-238 software be modified to allow use of this sensor (or the measuring
>concept) with a one-wire interface so we can can toss the rest of the system
>and get a T-238 for our hurricane "studies" here in Florida?

It'd have to be more than software, the Peet sensors are nothing like the 1-wire interface, you'd have to add some way to input them into the CPU. Since they are reed switches, an interface box would be pretty simple to design, just a couple of 1-wire switch encoders...

Steve

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

27. [wxsig] Re: T238 Status

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sun, 18 Feb 2001 10:21:21 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135825-2001.02.18-10.37.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have the sensor Will, but because of the cold weather haven't had the chance to install it. I'll see what I can do today and tommorrow.

Rich - Wn0x

-----Original Message-----
From: William Beals <will@beals5.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Date: Sunday, February 18, 2001 5:52 AM
Subject: [wxsig] T238 Status

>Folks:
>
>First a request, can I get feedback from the folk with humidity sensors,
>good or bad. I suspect I'm not getting reliable data yet. Looking at my
>data I've seen huge swings which I'm pretty certain are not accurate.
>Trouble is its easy to visualize and test wind, rain, and temperature.
>Humidity is a bit tougher.
>
>The Dallas folk seem to have consolidated a lot of their weather stuff on
to
>a single (large) page. This looks pretty comprehensive, referencing all
the
>various hardware sources, sensors available (or soon to be available), and
>where to get it all. The website is
>http://www.ibutton.com/weather/index.html
>
>Finally, a quick update on the AAG wind sensor support. I have the basic
>data gathering sort of working. It goes for a while then dies. The code
>is far from stable, but should hopefully be fairly stable soon.
>
>will
>
>==
>This message sent using 100% recycled electrons.
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>==
>Will Beals
>15014 East Idaho Place
>Aurora, CO 80012
>303-755-0293
>will@beals5.com
>
>
>---
>You are currently subscribed to wxsig as: wn0x@earthlink.net
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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

28. [wxsig] Re: T238 Status

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sun, 18 Feb 2001 12:12:30 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135845-2001.02.18-12.33.03--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will, which release? 1.12? I see the %RH on the screen, but I don't know
if it is seeing my RH sensor. I will cobble something together this
afternoon outside and see if I get better results. I was disconnecting the
wx station and plugging the sensor in direct before I climbed on the roof.

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

29. [wxsig] Re: T238 Status

From: "Clay Bartholow" <w0led@arrl.net>
Date: Sun, 18 Feb 2001 13:18:7
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135851-2001.02.18-13.32.41--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,
   I thought I'd let you know that my T238 is reporting 112% RH while the rest of the world around here is reporting 70% to 82% and the sky is clearing. (???)

Clay W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

30. [wxsig] Re: T238 Status

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sun, 18 Feb 2001 13:36:39 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135859-2001.02.18-13.56.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ok Will, I'm online.

The sensor is outside in a tin can arrangement that should allow for sufficient airflow, and shield the unit from ambient light. I am still seeing 0% RH so don't know if it will automatically pick up the sensor or not. I have restarted the unit several times.

Let me know if there is something else I should do.

Rich - Wn0x

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

31. [wxsig] Re: T238 Status ONLINE

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sun, 18 Feb 2001 14:00:03 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135864-2001.02.18-14.20.07--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will, the RH is working now and reading 37% in Central MO. Evidently the only way to set up RH is to re-set all the IDs. I have temporarily blown away my wind speed ids, so will have to rebuild them tommorrow and am not reporting wind speed. This means a cold trip to the roof. It would be really cool if the Humidity sensor could be added later without doing a reset of all the ids.

Rich

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

32. [wxsig] Humidity status

From: "William Beals" <will@beals5.com>
Date: Sun, 18 Feb 2001 13:23:20 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135866-2001.02.18-14.33.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Thanks all for the humidity feedback.

Mark and John: I'm hoping most of my confusion is related to not knowing how humidity behaves itself. I do see similar swings with the highest humidity during night time. I guess this is why Russ thinks dew point is a more useful measurement. It certainly is for flying. I would also certainly hope that the METARs are accurate, lives depend on them!

Clay and Rich: Rationalizing away 112% and 0% isn't going to work, something's busted. If at all possible, can you confirm that you get a good reading using the PC software? Certainly 0% and I suspect 112% are likely extremes where I am reading all 0's or all 1's from the sensor unit. I just realized a big mistake, but I'll highlight in a separate email to make it more obvious.

will

==========
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Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

33. [wxsig] Re: Humidity status

From: "Clay Bartholow" <w0led@arrl.net>
Date: Sun, 18 Feb 2001 15:4:1
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135877-2001.02.18-15.18.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,
  I agree, something seems to be broke. I re-installed the sensor inline, outdoors, in a baffle, so that the sensor is vented but protected from most anything except rain falling upwards from the ground. After the re-installation, I watched the T238 dispaly for about 20 minutes. At first it reported RH in the range 35% to 42% (with the airport reporting around 70%.) Then, all of a sudden, it jumped up to 89%. I have seen this same behavior every time I have re-started the T238 today. Then the pressure slowly climbs to 100% plus. (It reminds me of my stay in PascagouIa, Mississippi.) I checked the sensor with the TMEX application before I installed it with the T238. It showed RH in the range 20% to 32% which compared favorably with a "dumb" RH gauge I have here (it's pretty dry in the house.)

Clay W0LED

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

34. [wxsig] RE: Peet wind cups

From: Steve Dimse <sdimse@telocity.com>
Date: Sun, 18 Feb 2001 17:20:20 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135886-2001.02.18-16.34.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 2/18/01 3:28 PM William Beals (will@beals5.com) wrote:

>I'm not sure what the interface for the Peet ws/wd sensor looks like. I have
>looked before at trying to find a way to emulate the 1-wire protocol with a
>little micro or something and regrettably it is very nasty. Dallas set up
>the protocol to work well for small sensors but not micros for the slave
>devices. Good news (if I can encourage it) is that the AAG ws/wd sensor is
>relatively inexpensive at $80.
>
The interface is a pair of reed switches. One magnet is on the wind cups, the other on the vane. I don't understand exactly how they derive direction, but obviously it has something to do with the timing between pulses on the two lines.

Of course, it means there is no reading when there is no wind (it stays at the last reading) but then again, a wind of zero really has no direction!

Steve K4HG

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

35. [wxsig] RE: Peet wind cups

From: "William Beals" <will@beals5.com>
Date: Sun, 18 Feb 2001 13:28:14 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135868-2001.02.18-14.38.22--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Dale:

I'm not sure what the interface for the Peet ws/wd sensor looks like. I have looked before at trying to find a way to emulate the 1-wire protocol with a little micro or something and regrettably it is very nasty. Dallas set up the protocol to work well for small sensors but not micros for the slave devices. Good news (if I can encourage it) is that the AAG ws/wd sensor is relatively inexpensive at $80.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Dale Hardin
Sent: Sunday, February 18, 2001 2:10 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: Peet wind cups

Hello Alan and Steve. I have the Peet Bros ws/wd unit and I think it is a simple and elegant design. However, I cannot keep my U2000 unit running consistently and reliably (I don't think this is a general problem with the Peet system, it just seems to be an intermittent connector problem somewhere that I haven't found yet). Steve, do you think that it would be useful for the T-238 software be modified to allow use of this sensor (or the measuring concept) with a one-wire interface so we can can toss the rest of the system and get a T-238 for our hurricane "studies" here in Florida? Hmm, a spot of epoxy cement might be just the ticket for keeping the Peet Bros unit from "flying off the handle" during a hurricane. Thanks for the tip Alan.
Regards to all, Dale

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

36. [wxsig] Re: T238 Status ONLINE

From: "William Beals" <will@beals5.com>
Date: Sun, 18 Feb 2001 17:40:12 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135902-2001.02.18-18.51.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

Sorry about that. Dumb place to put the humidity sensor calibration. I am thinking of a more flexible calibration arrangement that will go into the next release. It is probably a couple of weeks away though...

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Rich Beckwith
Sent: Sunday, February 18, 2001 1:00 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: T238 Status ONLINE

Will, the RH is working now and reading 37% in Central MO. Evidently the only way to set up RH is to re-set all the IDs. I have temporarily blown away my wind speed ids, so will have to rebuild them tommorrow and am not reporting wind speed. This means a cold trip to the roof. It would be really cool if the Humidity sensor could be added later without doing a reset of all the ids.

Rich

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

37. [wxsig] Re: T238 Status ONLINE

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sun, 18 Feb 2001 20:30:12 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135920-2001.02.18-20.43.45--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

No problem, I take the T238 outside on the ladder and spin the wind vane
with a broom stick. Probably not safe, but it works.

It would be cool if there was an option to send the wire-ids out the port
designated for the computer so I could save them for later.   Of course this
means a way to enter them.   Would it be possible to add an updoad option to
MON08? Maybee a third parameter for a file with the wire ids?

Thanks for your efforts Will.   This is really cool software.

Rich Beckwith - Wn0x

>Rich:
>
>Sorry about that. Dumb place to put the humidity sensor calibration. I am
>thinking of a more flexible calibration arrangement that will go into the
>next release. It is probably a couple of weeks away though...
>
>will
>
>-----Original Message-----
>From: bounce-wxsig-21132@lists.tapr.org
>[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Rich Beckwith
>Sent: Sunday, February 18, 2001 1:00 PM
>To: TAPR WX Special Interest Group
>Subject: [wxsig] Re: T238 Status ONLINE
>
>
>
>Will, the RH is working now and reading 37% in Central MO. Evidently the
>only way to set up RH is to re-set all the IDs. I have temporarily blown
>away my wind speed ids, so will have to rebuild them tommorrow and am not
>reporting wind speed. This means a cold trip to the roof. It would be
>really cool if the Humidity sensor could be added later without doing a
>reset of all the ids.
>
>Rich
>
>
>---
>You are currently subscribed to wxsig as: will@beals5.com
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
>---
>You are currently subscribed to wxsig as: wn0x@earthlink.net
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

38. [wxsig] Re: T238 Status

From: "Clay Bartholow" <w0led@arrl.net>
Date: Sun, 18 Feb 2001 12:49:25
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135850-2001.02.18-13.04.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,
   I cobbled together my humidity sensor inside of an RJ-12 line coupler
and stuck it outside of the shack window (temporarily.) I don't think I

like the poor wx protection it has in its current housing and location but
it'll do for now.
   The T238 didn't show any RH at first (actually, it indicated 0%.) Then
I realized that since I hardwire my wind sensor IDs and don't run the setup
the T238 didn't know the humidity sensor ID. I got the ID from the TMEX
application, added the ID values to Wireids.asm, re-compiled,
re-programmed, and bingo!
   The T238 _was_ reporting a RH of about 82% while the local airport
(about a mile away) was reporting 77%.
   The T238 _just_ reported a RH of 90% and the airport reported 73%. I'll
keep you informed of my comparisons as we go along.

Clay W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

39. [wxsig] Humidity Sensor

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sun, 18 Feb 2001 21:08:02 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135937-2001.02.18-22.22.45--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Here are my experiences with the DSHS01K Humidity Sensor and Version 1.12
T-238 software. I installed the software on a weather station that is a
stand-alone unit, i.e. LCD display, not TNC or radio.

As suggested by others here, the sensor did not work, i.e. registered 0% RH
on the LCD, until I went through the complete temperature wind recalibration
process. Then it registered 30% which is normal for this situation, the
sensor is inside a heated building (my sister's veterinary clinic). I did
not have time to install it outside, so it will be inside, with the humidity
element away from direct light. I breathed on the sensor a few times and
the humidity went to 48%. So, everything is working.

One time as I was watching the display, the RH went to 129% for a 5 second
period. This erronous output was verified by another person watching at the
same time. However, for all the other times that I was looking at the
display, it seemed to be working fine. All of the functions of the weather
station are working fine, for the cold, wind conditions in northern Wyoming!

Russ
kb0tvj

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

40. [wxsig] Re: T238 Status P.S.

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sun, 18 Feb 2001 13:42:46 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135860-2001.02.18-14.02.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

P.S.

I wired the sensor so I could supply 5 volts directly to the HIH3610 at a
later time if we want to do some trouble shooting.

At 112% RH I wonder if Clay lives on the lost continent of Atlantis?

Rich - Wn0x

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

41. [wxsig] Important note on calibrating the humidity sensor.

From: "William Beals" <will@beals5.com>
Date: Sun, 18 Feb 2001 13:23:22 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135867-2001.02.18-14.33.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

In case I have not mentioned it (which I now realize that I haven't), you must re-run the wind/temperature recal in order to get the IDs for the humidity sensor loaded. With hindsight I realize this stinks as re-running the wind direction calibration is typically a real pain in the neck. I promise to move this in the next release.

Unfortunately, during code writing and debug I cheat and just poke values into my wireids.asm file. Fine for me, but because of this I didn't catch this foupaux.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

42. [wxsig] Re: Humidity status

From: "William Beals" <will@beals5.com>
Date: Sun, 18 Feb 2001 17:46:54 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-135904-2001.02.18-18.57.07--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay:

I see the occasional jump on my sensor too, but it is staying within reasonable ranges, making me wonder if it is real or not. Short of shipping sensors around, I am going to add some temporary diagnostic data on some screen somewhere so I can get the values being read from the sensor. I still need to isolate this to a raw data or computational problem.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Clay Bartholow
Sent: Sunday, February 18, 2001 12:00 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Humidity status

Will,
I agree, something seems to be broke. I re-installed the sensor inline, outdoors, in a baffle, so that the sensor is vented but protected from most anything except rain falling upwards from the ground. After the re-installation, I watched the T238 dispaly for about 20 minutes. At first it reported RH in the range 35% to 42% (with the airport reporting around 70%.) Then, all of a sudden, it jumped up to 89%. I have seen this same behavior every time I have re-started the T238 today. Then the pressure slowly climbs to 100% plus. (It reminds me of my stay in PascagouIa, Mississippi.) I checked the sensor with the TMEX application before I installed it with the T238. It showed RH in the range 20% to 32% which compared favorably with a "dumb" RH gauge I have here (it's pretty dry in the house.)

Clay W0LED

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

43. [wxsig] Re: T238 Status: Where does the RH data go?

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Mon, 19 Feb 2001 08:31:25 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136002-2001.02.19-08.51.17--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will, I am writing down T238 RH and the local weather station RH for
comparison later. Does this version of the software send RH as part of the
string? It might make data collection easier if I can go to findu.com for
the details.

Thanks,

Rich - Wn0x

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

44. [wxsig] RH sensor values > 100%

From: "Clay Bartholow" <w0led@arrl.net>
Date: Mon, 19 Feb 2001 8:59:13
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136006-2001.02.19-09.13.53--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will, Rich, Russ, and all,

Here's some data I took using the DalSemi TMHUMID mini-application for the
RH sensor. The times are CST. The first value, I suspect, is the 1-wire
bus voltage, the second value I'm unsure of, the third appears to be temp
in degrees C, and the fourth the RH.

I brought my sensor inside yesterday afternoon and started to watch it over
the course of a few hours. It worked fine at first (an hour) but then the
errors you see here started to crop up (only not so frequently as here.)
Note especially the drop to -1.00 V of the bus voltage and the wild swings
in the RH. I suspect the negative RH values are the result of interpreting
the raw 2438 data as signed integer values -- that's just a guess -- I
could be wrong.

08:26:13, -1.00, -1.00, 26.41C, 135.81%
08:26:13, -1.00, -1.00, 26.41C, 135.81%
08:26:14, 4.77, -1.00, 26.41C, -59.77%
FIRST CRC
08:26:15, 4.77, -1.00, -1.00C, -56.42%
08:26:15, -1.00, 1.42, 26.38C, -255.44%
08:26:16, -1.00, -1.00, 26.31C, 135.79%
08:26:17, 4.77, -1.00, 26.44C, -59.77%
FIRST CRC
08:26:18, 4.77, 1.43, -1.00C, 21.34%
FIRST CRC
08:26:18, -1.00, -1.00, -1.00C, 128.21%
FIRST CRC
08:26:19, 4.77, 1.43, -1.00C, 21.34%
FIRST CRC
08:26:20, -1.00, 1.43, -1.00C, -242.68%
08:26:22, -1.00, 1.42, 26.44C, -255.48%
08:26:24, -1.00, -1.00, 26.44C, 135.82%
08:26:27, 4.77, -1.00, 26.38C, -59.76%
FIRST CRC
08:26:29, 4.77, -1.00, -1.00C, -56.42%
08:26:31, 4.77, -1.00, 26.41C, -59.77%
08:26:34, 4.77, 1.42, 26.44C, 22.26%
08:26:36, 4.77, -1.00, 26.53C, -59.78%

Here's a second batch after wiggling the cable between the DS9097U adapter
and the cable going to the sensor.

```
08:28:31, 4.77, 1.44, 26.56C, 22.95%
08:28:32, 4.77, 1.44, 26.66C, 22.95%
08:28:33, 4.77, 1.43, 26.63C, 22.61%
08:28:34, 4.77, 1.44, 26.72C, 22.96%
08:28:35, 4.77, 1.43, 26.63C, 22.61%
08:28:35, 4.77, 1.44, 26.56C, 22.95%
08:28:36, 4.77, 1.44, 26.59C, 22.95%
08:28:37, 4.77, 1.43, 26.69C, 22.62%
08:28:38, 4.77, 1.43, 26.69C, 22.62%
08:28:39, 4.77, 1.43, 26.63C, 22.61%
08:28:40, 4.77, 1.44, 26.66C, 22.95%
08:28:41, 4.77, 1.43, 26.66C, 22.61%
08:28:42, 4.77, 1.43, 26.59C, 22.61%
08:28:43, 4.78, 1.44, 26.66C, 22.85%
08:28:44, 4.77, 1.43, 26.69C, 22.62%
08:28:44, 4.77, 1.43, 26.56C, 22.61%
08:28:45, 4.77, 1.43, 26.66C, 22.61%
08:28:46, 4.77, 1.43, 26.56C, 22.61%
08:28:47, 4.77, 1.43, 26.59C, 22.61%
08:28:48, 4.77, 1.42, 26.63C, 22.27%
08:28:49, 4.77, 1.42, 26.59C, 22.27%
08:28:50, 4.77, 1.42, 26.69C, 22.28%
08:28:51, 4.77, 1.43, 26.59C, 22.61%
08:28:52, 4.78, 1.42, 26.66C, 22.17%

Solid...

Here I cupped my hand over the sensor and you can see the RH go up as you'd
expect.  Also handling and wiggling the line coupler didn't seem to make it
go belly up.

08:36:53, 4.77, 1.50, 26.13C, 24.96%
08:36:54, 4.77, 1.56, 26.19C, 27.00%
08:36:55, 4.77, 1.61, 26.13C, 28.69%
08:36:56, 4.77, 1.64, 26.13C, 29.70%
08:36:57, 4.77, 1.68, 26.13C, 31.06%
08:36:58, 4.77, 1.71, 26.16C, 32.08%
08:36:59, 4.77, 1.74, 26.28C, 33.10%
08:37:00, 4.77, 1.77, 26.22C, 34.11%
08:37:00, 4.77, 1.79, 26.31C, 34.80%
08:37:01, 4.77, 1.82, 26.22C, 35.81%
08:37:02, 4.77, 1.84, 26.31C, 36.49%
08:37:03, 4.78, 1.86, 26.38C, 37.04%
08:37:04, 4.77, 1.89, 26.34C, 38.19%
08:37:05, 4.77, 1.91, 26.41C, 38.87%
08:37:06, 4.77, 1.93, 26.41C, 39.55%
08:37:07, 4.78, 1.95, 26.59C, 40.11%
08:37:08, 4.78, 1.96, 26.44C, 40.43%
08:37:09, 4.78, 1.98, 26.59C, 41.12%
08:37:09, 4.77, 1.98, 26.69C, 41.27%
08:37:10, 4.78, 2.00, 26.75C, 41.81%
08:37:11, 4.78, 2.01, 26.66C, 42.14%
08:37:12, 4.78, 2.02, 26.88C, 42.50%
08:37:13, 4.78, 2.02, 26.84C, 42.50%
08:37:14, 4.78, 2.01, 26.91C, 42.16%

Aaah...now here's an experiment that might help me...I disconnected the
line coupler-mounted sensor from the cable back to the DS9097U adapter and
the computer and *LOOK* at that RH value.  Let's see -- average a few of
these in with valid values and it proves the old adage GIGO.

08:39:57, 4.78, 1.38, 28.19C, 20.89%
08:39:58, 4.77, 1.38, 28.19C, 20.99%
FIRST CRC
08:39:58, -1.00, -1.00, -1.00C, 128.21%
FIRST CRC
08:39:59, -1.00, -1.00, -1.00C, 128.21%
FIRST CRC
08:39:59, -1.00, -1.00, -1.00C, 128.21%
FIRST CRC
08:39:59, -1.00, -1.00, -1.00C, 128.21%
FIRST CRC
08:40:00, -1.00, -1.00, -1.00C, 128.21%
FIRST CRC
08:40:00, -1.00, -1.00, -1.00C, 128.21%
FIRST CRC
08:40:01, -1.00, -1.00, -1.00C, 128.21%
FIRST CRC
08:40:01, -1.00, -1.00, -1.00C, 128.21%
```

FIRST CRC
08:40:01, -1.00, -1.00, -1.00C, 128.21%
FIRST CRC
08:40:02, -1.00, -1.00, -1.00C, 128.21%
FIRST CRC
08:40:02, -1.00, -1.00, -1.00C, 128.21%

I'll have to look at the TMHUMID source code and see what that second value
is but I gotta go be productive for awhile.

I'm beginning not to like the line coupler installation idea. Anyway
CUL...

Clay W0LED

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

45. [wxsig] Real time clock DS-1994l

From: Russ Hummel <hummel@HSC.VCU.EDU>
Date: Mon, 19 Feb 2001 10:06:05 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136009-2001.02.19-09.20.45--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does the DS 1994L real time clock just hang across the 1 wire network. If
so I guess the T-238 software sees it and loads it's own clock with the
date and time automatically from the DS 1994L ? Is this correct.?

Are you guys going to be at Dayton this year ?

Thanks Russ WB4PGT
Russ Hummel   CTA2RD
Biomedical Engineer & LAN Manager
Dept of Anesthesiology
Medical College of VA @ VCU
804-828-2212

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

46. [wxsig] Re: T238 Status: Where does the RH data go?

From: "Russ Chadwick" <crb5@qwest.net>
Date: Mon, 19 Feb 2001 08:45:13 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136015-2001.02.19-10.00.38--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Rich,

Yes, the relative humidity is included in the data string that the T-238
(with version 1.12 software) sends to the TNC. If your packets are received
by an Igate, the relative humidity data will be on findu.com. Use this URL,
and enter the appropriate information and you can get a numeric listing of
your weather station data.

http://www.wulfden.org/APRSQuery.shtml

Russ
kb0tvj

----- Original Message -----
From: Rich Beckwith <wn0x@earthlink.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Monday, February 19, 2001 7:31 AM
Subject: [wxsig] Re: T238 Status: Where does the RH data go?

> Will, I am writing down T238 RH and the local weather station RH for
> comparison later. Does this version of the software send RH as part of
the
> string? It might make data collection easier if I can go to findu.com for
> the details.
>
> Thanks,
>

> Rich - Wn0x
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

47. [wxsig] Re: Real time clock DS-1994l

From: "Russ Chadwick" <crb5@qwest.net>
Date: Mon, 19 Feb 2001 08:52:36 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136017-2001.02.19-10.07.15--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Russ,

Yes, the DS1994 real time clock just hooks across the 1-Wire buss. Of course, it has to have the correct polarity. If you have the polarity reversed, no harm is done. The T-238 will inform you that the 1-Wire buss is shorted. Then, just reverse the DS1994 and restart. The T-238 will inform you that it found the real time clock on the buss and will set that time into its own clock. You won't have to do anything except watch the LCD.

No, unfortunately neither Will or I will be at Dayton this year.

Russ
kb0tvj

----- Original Message -----
From: Russ Hummel <hummel@HSC.VCU.EDU>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Monday, February 19, 2001 8:06 AM
Subject: [wxsig] Real time clock DS-1994l

> Does the DS 1994L real time clock just hang across the 1 wire network. If
> so I guess the T-238 software sees it and loads it's own clock with the
> date and time automatically from the DS 1994L ? Is this correct.?
>
> Are you guys going to be at Dayton this year ?
>
> Thanks Russ WB4PGT
> Russ Hummel CTA2RD
> Biomedical Engineer & LAN Manager
> Dept of Anesthesiology
> Medical College of VA @ VCU
> 804-828-2212
>
>
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> You are currently subscribed to wxsig as: crb5@uswest.net
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>

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

48. [wxsig] Re: Humidity Sensor

From: John Koster <w9ddd@tapr.org>
Date: Mon, 19 Feb 2001 10:11:21 -0600 (CST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136027-2001.02.19-10.25.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I knew someone could explain it better! Thanks!
John Koster, W9DDD
<w9ddd@tapr.org>

```
  ===================================================================
None of the above represents the opinion or policy of anyone or any entity
other than John Koster unless expressly so stated above.

On Mon, 19 Feb 2001, Brent L. Shaw wrote:

> FWIW on the humidity sensor, I have had one hooked up to my Dallas unit
> for a few weeks now, but inside right near the computer.  I am using
> Arne Hennriskson's weather station software for display/logging of the
> data, and my readings have been very steady (which is what I would hope
> in a house that maintains a fairly constant temperature and humidity
> level).  However, it is normal for outdoor humidity to vary quite a bit
> during a 24-hour period, since RH is a function of temperature as well
> as moisture content.  Consider the following example where the actual
> abosolute moisture content in the air does not change, but the
> temperature does due to normal heating of the day:
>
> Dewpoint = 60F (Water vapor mixing ratio around 11 g/kg), Temperature =
> 60F:  RH = 100%
> Dewpoint = 60F (Water vapor mixing ratio around 11 g/kg), Temperature =
> 90F:  RH = 37%
>
> This would be a typical fairly humid day in the midwest with high-enough
> dewpoints to support good thunderstorm activity.  People getting up and
> leaving for work in the morning (when the temp is 60F) would find it
> very humid and probably either foggy or at least a lot of dew. Watching
> the morning news, they would see that the humidity is 100%.  However, by
> afternoon, the temperature has risen to a sultry 90F, but the moisture
> content has not changed, and the relative humidity is now only 37%!
> Because at work they aren't around the TV set, they assume it is now 90F
> with nearly 100% RH, which is not true.  This is why I never have liked
> using RH as something to report for moisture/comfort levels.  Dewpoint
> is much more stable and meaningful.  Basically, whenever the dewpoint
> gets into the 60's and 70's, you begin to feel very uncomfortable.  It
> is rare in the continental US for the dewpoint get much higher than the
> mid-upper 70's (and those days only a few times in the summer in the
> southeast US).  The worst day I remember was a day in South Carolina
> where the dewpoint reached 84 in the morning, and it was almost
> unbearable.  The highest dewpoints in the world occur along the Persian
> Gulf, where they can reach 90-95F in the summer.
>
> --
> ***********************************************************************
> * Brent L. Shaw               Title  : Research Associate       *
> * NOAA/OAR/FSL/FRD  R/FS1     Affil. : CIRA/CSU                 *
> * 325 Broadway                Phone  : (303) 497-6100           *
> * Boulder, CO  80305-3328     E-Mail : shaw@fsl.noaa.gov        *
> * http://laps.fsl.noaa.gov    Room   : DSRC - 2B511             *
> ***********************************************************************
>
> ---
> You are currently subscribed to wxsig as: w9ddd@tapr.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>


---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

49. [wxsig] T238 error codes

```
From: "Clay Bartholow" <w0led@arrl.net>
Date: Mon, 19 Feb 2001 12:14:36
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136047-2001.02.19-12.29.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,
Is the bus voltage still the last value in the top of the hour error list?
And then the RH sensor error count just before that?

I'm trying to get a better feel for how the RH sensor might be affecting my
bus voltage.

Clay W0LED

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
```

To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

50. [wxsig] Re: T238 error codes

From: "Russ Chadwick" <crb5@qwest.net>
Date: Mon, 19 Feb 2001 11:26:25 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136049-2001.02.19-12.41.04--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay,

Yes, the buss voltage is still the last two digits in the error count list output in the first 5 minute period after the top of the hour. I believe that the relative humidity error count is the two digits directly before the buss voltage.

I have experienced occasional RH values of 129% without an increase in the RH error count. The buss voltage for this unit is about 4.7 volts.

Russ
kb0tvj

----- Original Message -----
From: Clay Bartholow <w0led@arrl.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Monday, February 19, 2001 12:14 PM
Subject: [wxsig] T238 error codes

> Will,
> Is the bus voltage still the last value in the top of the hour error list?
> And then the RH sensor error count just before that?
>
> I'm trying to get a better feel for how the RH sensor might be affecting
my
> bus voltage.
>
> Clay W0LED
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

51. [wxsig] Re: T238 error codes

From: "Clay Bartholow" <w0led@arrl.net>
Date: Mon, 19 Feb 2001 12:54:59
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136053-2001.02.19-13.09.39--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks Russ,

I ask because the voltage reported with the RH sensor out of circuit is FE or FF as reported over the last 12 hours or so, i.e., darn near 5.0 volts. But with it in-circuit the voltage is reported as about EF or about 4.7 volts. I'm just trying to rule out suspects in the BP errors I've been seeing from the sensor.

BTW, if you looked at the TMHUMID-reported values I posted earlier, the -1.00 values aren't actual voltages. I wasn't sure so I looked briefly at the source code for TMHUMID. It appears that they are error values returned when reading either VDD or VAD from the DS2438 if an error of some sort (other than access) occurs. This might suggest some kind of timing-related issue in accessing the DS2438. That's just a wild guess on my part.

Clay W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

52. [wxsig] Re: Humidity Sensor

```
From: "Brent L. Shaw" <shaw@fsl.noaa.gov>
Date: Mon, 19 Feb 2001 07:42:13 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136003-2001.02.19-08.59.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

```
FWIW on the humidity sensor, I have had one hooked up to my Dallas unit
for a few weeks now, but inside right near the computer.  I am using
Arne Hennriskson's weather station software for display/logging of the
data, and my readings have been very steady (which is what I would hope
in a house that maintains a fairly constant temperature and humidity
level).  However, it is normal for outdoor humidity to vary quite a bit
during a 24-hour period, since RH is a function of temperature as well
as moisture content.  Consider the following example where the actual
abosolute moisture content in the air does not change, but the
temperature does due to normal heating of the day:

Dewpoint = 60F (Water vapor mixing ratio around 11 g/kg), Temperature =
60F:  RH = 100%
Dewpoint = 60F (Water vapor mixing ratio around 11 g/kg), Temperature =
90F:  RH = 37%

This would be a typical fairly humid day in the midwest with high-enough
dewpoints to support good thunderstorm activity.  People getting up and
leaving for work in the morning (when the temp is 60F) would find it
very humid and probably either foggy or at least a lot of dew. Watching
the morning news, they would see that the humidity is 100%.  However, by
afternoon, the temperature has risen to a sultry 90F, but the moisture
content has not changed, and the relative humidity is now only 37%!
Because at work they aren't around the TV set, they assume it is now 90F
with nearly 100% RH, which is not true.  This is why I never have liked
using RH as something to report for moisture/comfort levels.  Dewpoint
is much more stable and meaningful.  Basically, whenever the dewpoint
gets into the 60's and 70's, you begin to feel very uncomfortable.  It
is rare in the continental US for the dewpoint get much higher than the
mid-upper 70's (and those days only a few times in the summer in the
southeast US).  The worst day I remember was a day in South Carolina
where the dewpoint reached 84 in the morning, and it was almost
unbearable.  The highest dewpoints in the world occur along the Persian
Gulf, where they can reach 90-95F in the summer.

--
*****************************************************************
* Brent L. Shaw                Title  : Research Associate      *
* NOAA/OAR/FSL/FRD  R/FS1      Affil. : CIRA/CSU                *
* 325 Broadway                 Phone  : (303) 497-6100          *
* Boulder, CO  80305-3328      E-Mail : shaw@fsl.noaa.gov       *
* http://laps.fsl.noaa.gov     Room   : DSRC - 2B511            *
*****************************************************************

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

53. [wxsig] More on wind direction problems.

```
From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Mon, 19 Feb 2001 09:03:35 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136010-2001.02.19-09.21.39--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

```
Will, First a review of my history: As you know I have been having
problems with my station loosing the wind direction ID's. I have
determined this happens when I transmit on 20M (14.3 MHZ) some 40' above
the station.
The display for wind direction goes to --- (and stays this way)
re-calibration does not see the ID's at all. In the past powering down
the unit for 10 minutes or so seemed to "reset" the problem and I was
able to re-calibrate and be back on line. However this last time that
did not work. I burned a new chip with the latest software and tried it.
Same thing, the ID's won't show during the calibration. However I have
my first chip that always works and has never seen this problem, it is
ver 1.09.xx I still see the direction display go to --- during 20m QSOs
but it always recovers on its own with no calibration. I would be happy
to keep this chip in place but I would like the features that newer
versions of your software bring. I noticed the RF problem seems to blank
most of the sensors in all software versions but only the wind direction
```

totally dies in version 1.10.xx and up. So I did a little investigating
on the Dallas web site. In particular I was looking at the spec. sheet
for the 1 wire addressable switch DS2406/7. This is the chip that is
used in wind direction circuit of the station.
http://www.dalsemi.com/datasheets/pdfs/2407.pdf
I noticed the following line on page 10 of this sheet: "The reset low
time (tRSTL) should be restricted to a maximum of 960 uS to allow
interrupt signaling, otherwise it could mask or conceal interrupt pulses
if the device is used with a DS2404 or DS1994"
If my memory is correct I think my ver 1.09.xx chip that always works
was the last version before you added the support for the DS1994. Could
I be on to something?
I seems I am the only person to see this problem so it may not be
important but it sure is driving me crazy. BTW I do not have a DS1994
installed but plan on adding one soon.
Bill N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

54. [wxsig] Re: More on wind direction problems.

From: "Russ Chadwick" <crb5@qwest.net>
Date: Mon, 19 Feb 2001 09:11:28 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136028-2001.02.19-10.26.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill,

One thing that you might want to try to reduce RFI is to make multiple turns
of the 1-Wire buss twisted pair through a ferrite toroid. The T-238 has
ferrite beads on both wires of the buss, but I suspect that more RF
shielding on the twisted pair might be helpful. I have used multiple loops
of the 1-Wire twisted pair around large steel nails to introduce inductance
to hopefully prevent lightning damage. Note that I am not saying to
seperate the two sides of the buss, just pass both sides through a ferrite
several times. If you should try this, we would be interested in knowing
the results.

Russ
kb0tvj

----- Original Message -----
From: Bill Ellis <rwsw60@email.sps.mot.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Monday, February 19, 2001 8:03 AM
Subject: [wxsig] More on wind direction problems.

> Will, First a review of my history: As you know I have been having
> problems with my station loosing the wind direction ID's. I have
> determined this happens when I transmit on 20M (14.3 MHZ) some 40' above
> the station.
> The display for wind direction goes to --- (and stays this way)
> re-calibration does not see the ID's at all. In the past powering down
> the unit for 10 minutes or so seemed to "reset" the problem and I was
> able to re-calibrate and be back on line. However this last time that
> did not work. I burned a new chip with the latest software and tried it.
> Same thing, the ID's won't show during the calibration. However I have
> my first chip that always works and has never seen this problem, it is
> ver 1.09.xx I still see the direction display go to --- during 20m QSOs
> but it always recovers on its own with no calibration. I would be happy
> to keep this chip in place but I would like the features that newer
> versions of your software bring. I noticed the RF problem seems to blank
> most of the sensors in all software versions but only the wind direction
> totally dies in version 1.10.xx and up. So I did a little investigating
> on the Dallas web site. In particular I was looking at the spec. sheet
> for the 1 wire addressable switch DS2406/7. This is the chip that is
> used in wind direction circuit of the station.
> http://www.dalsemi.com/datasheets/pdfs/2407.pdf
> I noticed the following line on page 10 of this sheet: "The reset low
> time (tRSTL) should be restricted to a maximum of 960 uS to allow
> interrupt signaling, otherwise it could mask or conceal interrupt pulses
> if the device is used with a DS2404 or DS1994"
> If my memory is correct I think my ver 1.09.xx chip that always works
> was the last version before you added the support for the DS1994. Could
> I be on to something?

> I seems I am the only person to see this problem so it may not be
> important but it sure is driving me crazy. BTW I do not have a DS1994
> installed but plan on adding one soon.
> Bill N5ZTW
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

55. [wxsig] Re: Real time clock DS-1994l

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Mon, 19 Feb 2001 15:30:31 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136089-2001.02.19-15.50.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yes, and this is extremely handy as resetting the T238 after power loss is a pain. Be very careful when programming the DS1994 so you don't select the option that "locks" the time. I have one DS1994 that is now permantly 5 minutes late. Also, with the the DS1994 across the bus, you no longer get the "1-wire lan missing" error on startup, cause its always there, in the form of a DS1994.

Rich - Wn0x
----- Original Message -----
From: Russ Hummel <hummel@HSC.VCU.EDU>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Monday, February 19, 2001 9:06 AM
Subject: [wxsig] Real time clock DS-1994l

> Does the DS 1994L real time clock just hang across the 1 wire network. If
> so I guess the T-238 software sees it and loads it's own clock with the
> date and time automatically from the DS 1994L ? Is this correct.?
>
> Are you guys going to be at Dayton this year ?
>
> Thanks Russ WB4PGT
> Russ Hummel CTA2RD
> Biomedical Engineer & LAN Manager
> Dept of Anesthesiology
> Medical College of VA @ VCU
> 804-828-2212
>
>
> ---
> You are currently subscribed to wxsig as: wn0x@earthlink.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

56. [wxsig] peet bros and aprs

From: KB5OJR@aol.com
Date: Mon, 19 Feb 2001 17:58:27 EST
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136111-2001.02.19-17.13.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

what all do i need to get the peet bros going with aprs?
besides the rf gear and the peet bros unit.

thanks,

j.p.

57. [wxsig] Re: T238 error codes

From: Guy Story <kc5goi@tapr.org>
Date: Mon, 19 Feb 2001 13:54:12 -0600 (CST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136076-2001.02.19-14.09.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay, If and I say IF I read the docs right, the proper use of a MOSFET
may help if power levels are turning out to be a problem. I do not have a
data sheet on the humidity sensor but I do have one on the DD18s20. It
mentions the use of a MOSFET.

73,

Guy Story
KC5GOI
kc5goi@tapr.org
http://www.kc5goi.net

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

58. [wxsig] Re: peet bros and aprs

From: "J Boora" <jboora@seanet.com>
Date: Mon, 19 Feb 2001 17:17:31 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136126-2001.02.19-19.37.52--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

As I recall, all you need to do is connect a cord from the Peet Brothers box to your PC. I think it's
the Com2 port. Then make the necessary changes to the APRS settings including the TX rate (every 10
minutes is the suggested TX rate). That should about do it. Then under LIST, select 24 HR WX Chart and
 you can see what's happening. Drop me a note if you still have any problems. Mine works great and has
 been on the air continiously for over a year. Look for KD7FBT near the Washington coast. That's me
and my Peet Brothers WX station. 73's and Good luck. Jim B. KD7FBT

  ----- Original Message -----
  From: KB5OJR@aol.com
  To: TAPR WX Special Interest Group
  Sent: Monday, February 19, 2001 2:58 PM
  Subject: [wxsig] peet bros and aprs

  what all do i need to get the peet bros going with aprs?
  besides the rf gear and the peet bros unit.

  thanks,

  j.p.

59. [wxsig] Re: T238 Status - Online

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Mon, 19 Feb 2001 15:38:03 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136090-2001.02.19-15.57.50--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

Just finished climbing the roof and the Wx station is back online with RH.
I have not seen anything out of the ordinary so far. I am usually withing
10% of the local weather station.   I will continue to watch. I have a port
on my 1-wire hub specifically for the RH sensor, so don't know if that will
improve reliability or not. Would it help to get a voltage reading of the
one wire bus at the sensor?

When standing under the Wx station I forgot that it must be turned "COUNTER"
clockwise for re-programming the IDs. One more trip to the roof :)

Rich - Wn0x

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

60. [wxsig] RE: More on wind direction problems.

From: "William Beals" <will@beals5.com>
Date: Mon, 19 Feb 2001 20:52:48 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136158-2001.02.19-22.02.53--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill:

>From what I can tell, the high RF is clobbering something in the micro.
>From the way you describe the circumstances, what gets clobbered may be
pretty consistent, like a particular RAM location or something. The effect
of that clobbered RAM location may have very different results depending on
the version of code you are running.

Right now I do not use any of the 1-wire interrupts (didn't even know they
existed to be honest!), so I'm not sure if I am messing with those or not.
What could be happening though is that there could be some RAM locations
inside the 2407 that are getting whacked somehow. If one of the bits that
sets the I/O direction got whacked and becomes an input, that would render
the ability to enable the eight ID chips impossible.

I was wondering if 20 meters correlated to some kind of magical timing
number, but it does not. In addition to Russes suggestions on adding
filtering on the input to the T238, I would also highly suggest filtering on
the sensor unit as well. In addition to the telephone cable, the traces on
the PCBs that could be picking up who-knows what.

will

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

61. [wxsig] Re: T238 Status ONLINE

From: "William Beals" <will@beals5.com>
Date: Mon, 19 Feb 2001 20:52:44 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136161-2001.02.19-22.03.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

Finding some way of archiving and restoring IDs is on my long-term list of
things to do. Alas long term is that, quite a ways out. I've been hoping
to find a volunteer for rewriting MON08 for Windows, but most likely that
volunteer will be me.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Rich Beckwith
Sent: Sunday, February 18, 2001 7:30 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: T238 Status ONLINE

No problem, I take the T238 outside on the ladder and spin the wind vane
with a broom stick. Probably not safe, but it works.

It would be cool if there was an option to send the wire-ids out the port
designated for the computer so I could save them for later. Of course this
means a way to enter them. Would it be possible to add an updoad option to
MON08? Maybee a third parameter for a file with the wire ids?

Thanks for your efforts Will. This is really cool software.

Rich Beckwith - Wn0x

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

62. [wxsig] Re: peet bros and aprs

From: "Darrell Sutton" <kf4hjw@home.com>
Date: Mon, 19 Feb 2001 20:52:09 -0500

To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136131-2001.02.19-20.04.50--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Has anyone setup a peet using there interface box for external remote heads and taken the
output of that and used it for aprs to a kpc3+ or computer.

thats the setup our eoc has now and we want to get it on line

thanks
darrell

63. [wxsig] Re: peet bros and aprs

From: Steve Dimse <sdimse@telocity.com>
Date: Tue, 20 Feb 2001 01:51:05 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136196-2001.02.20-01.05.56--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 2/19/01 8:52 PM Darrell Sutton (kf4hjw@home.com) wrote:

>Has anyone setup a peet using there interface box for external remote
>heads and taken the
>output of that and used it for aprs to a kpc3+ or computer.
>
>thats the setup our eoc has now and we want to get it on line
>
The output of the peet can be split with a simple RJ-45 jack. I have a 5
way from Radio Shack, feeding two of the large weather pictures and the
computer. If I add the wireless remote transmitter though, it overloads
the output, and becomes unreliable. In other words, it works, but can be
overloaded...

Steve K4HG

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

64. [wxsig] Clays Data

From: "William Beals" <will@beals5.com>
Date: Mon, 19 Feb 2001 20:50:15 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136157-2001.02.19-22.00.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay:

Thanks for the big data dump. Am I correctly inferring that you may have a
setup/cabling problem as you saw strange data on the computer as well? Is
the T238 still reporting bad data once you got the coupler out of the way?

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

65. [wxsig] Re: T238 Status - Online

From: "William Beals" <will@beals5.com>
Date: Mon, 19 Feb 2001 20:52:50 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136160-2001.02.19-22.03.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

Good point, if you are calibrating from the bottom, you should run the

weather vane counter-clockwise! Good addition for the next manual revision.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Rich Beckwith
Sent: Monday, February 19, 2001 2:38 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: T238 Status - Online

Will,

Just finished climbing the roof and the Wx station is back online with RH.
I have not seen anything out of the ordinary so far. I am usually withing
10% of the local weather station.   I will continue to watch. I have a port
on my 1-wire hub specifically for the RH sensor, so don't know if that will
improve reliability or not. Would it help to get a voltage reading of the
one wire bus at the sensor?

When standing under the Wx station I forgot that it must be turned "COUNTER"
clockwise for re-programming the IDs. One more trip to the roof :)

Rich - Wn0x

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

66. [wxsig] RE: Humidity Sensor

From: "William Beals" <will@beals5.com>
Date: Mon, 19 Feb 2001 20:52:46 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136159-2001.02.19-22.02.57--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ:

I think I have some holes where I do not correctly show dashes if the
humidity sensor is either not there or never programmed. I have that on my
list. For now I only increment the error counter if I have comm errors
while retrieving the data. I do not try to discern if the data is "good" or
not. I'm assuming that if the sensors are working and I have the math right
I will get correct values. I plan on an interim release to show some of the
raw sensor values as a temporary measure until the humidity sensor readings
are making sense to everyone satisfaction.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Russ Chadwick
Sent: Sunday, February 18, 2001 9:08 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Humidity Sensor

Here are my experiences with the DSHS01K Humidity Sensor and Version 1.12
T-238 software. I installed the software on a weather station that is a
stand-alone unit, i.e. LCD display, not TNC or radio.

As suggested by others here, the sensor did not work, i.e. registered 0% RH
on the LCD, until I went through the complete temperature wind recalibration
process. Then it registered 30% which is normal for this situation, the
sensor is inside a heated building (my sister's veterinary clinic). I did
not have time to install it outside, so it will be inside, with the humidity
element away from direct light. I breathed on the sensor a few times and
the humidity went to 48%. So, everything is working.

One time as I was watching the display, the RH went to 129% for a 5 second

period. This erronous output was verified by another person watching at the
same time. However, for all the other times that I was looking at the
display, it seemed to be working fine. All of the functions of the weather
station are working fine, for the cold, wind conditions in northern Wyoming!

Russ
kb0tvj

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

67. [wxsig] Re: Clays Data

From: "Clay Bartholow" <w0led@arrl.net>
Date: Tue, 20 Feb 2001 12:47:28
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136327-2001.02.20-13.02.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

I'm not sure that I'm inferring anything in particular. They're just
observations I've made in an attempt to ascertain a) how my sensor is
behaving and b) how the various software I have run it on reacts to
errors.

I'm still trying to determine if I do, in fact, have a cabling problem.
For the TMHUMID values you've seen here I have tried a few different
configurations with little difference in behavior (since the initial
observations.) I suspect that the intermittent behavior is less likely to
be cabling-related and more likely to be timing-related. That is purely a
suspicion, however.

I would note that I have had the sensor connected to the T238, the TMHUMID
application, and to Arne Henriksen's WXSERVER software at various times.
The TMHUMID results you have seen. I have since wiggled, pulled, pushed,
tapped, and dropped the line coupler-packaged sensor with no obvious change
in behavior (that is, it has taken a lickin' and kept on tickin'.) That is
not to say that there haven't still been data errors but they seem to be
software-dependent.

Let me explain that statement: I have left the sensor connected to TMHUMID
for several hours and seen occasional errors reported for Vdd, Vad, temp,
and, as a result, the computed RH. My suspicion is that these are
timing-related as I have noted before. I did notice that, when the temp
dropped below 0 degrees C, I got data similar to the following reported by
TMHUMID:

21:55:44, 4.74, 2.77, 252.97C, 134.69%
21:55:46, 4.74, 2.79, 253.16C, 136.14%
21:55:48, 4.74, 2.81, 253.28C, 137.55%
21:55:50, 4.74, 2.83, 253.47C, 139.01%
21:55:51, 4.74, 2.85, 253.72C, 140.50%
21:55:53, 4.74, 2.87, 254.09C, 142.07%

Notice that Vdd and Vad hang in there very well but the temp goes bad. I'm
guessing that this is the result of an interpretation error or something
similar in the TMHUMID software although I haven't looked at the source
that closely to verify that. I brought the sensor inside and held it in my
hand to warm it up and got these results:

21:55:54, 4.74, 2.89, 254.53C, 143.68%
21:55:56, 4.74, 2.92, 254.69C, 145.80%
21:55:58, 4.74, 2.94, 255.06C, 147.39%
21:55:59, 4.74, 2.96, 255.47C, 149.00%
21:56:01, 4.74, 2.98, 255.78C, 150.55%
21:56:03, 4.74, 3.03, 0.22C, 73.33%
21:56:05, 4.74, 3.03, 0.66C, 73.39%
21:56:06, 4.74, 3.05, 1.13C, 74.11%
21:56:08, 4.75, 3.05, 1.56C, 73.97%
21:56:10, 4.75, 3.07, 1.91C, 74.67%
21:56:11, 4.75, 3.12, 2.47C, 76.37%
21:56:13, 4.75, 3.10, 2.78C, 75.77%
21:56:15, 4.75, 3.11, 3.13C, 76.15%
21:56:17, 4.75, 3.11, 3.56C, 76.22%
21:56:19, 4.75, 3.11, 4.00C, 76.29%
21:56:21, 4.75, 3.10, 4.31C, 76.01%

You can see that as soon as the temp value went above 0 degrees the RH values started to fall into a more reasonable range. As soon as I saw this I shut down TMHUMID, fired up Arne's WXSERVER, stuck the sensor back out the window, and watched the status report. The temp value was correctly reported as below freezing and showed cooling of the sensor as would be expected. The displayed RH values compared fairly well to the airport values. This is what has led me to believe that the TMHUMID errors seem more likely to be software-related than hardware-related (although software-dependent timing could still be an issue.)

I guess, from all of this, and in particular from the reporting I see via Arne's WXSERVER application, I'm fairly (but not completely -- note the reservation)confident that my sensor works. Given that, I'm still trying to understand the above-100% RH reported by the T238.

I'm concerned with two issues at this point although I don't mean to say that they are the culprits here. First, it has been cold here (and they're saying 10-15 below zero tonight) and I wonder about the impact of that given the data I have seen from TMHUMID when the temp dropped below 0 degrees C. Second, I wonder about sensor placement along the line. When I had the sensor outside and in-line it was about fifty feet closer to the T238 than the WX station. I'm not sure what the impact of capacitive loading, line reflections, placement, etc. might have on timing and data distortion.

For now, I'm going to leave my RH sensor off the T238 except for some additional, short-term experiments and I'm looking forward to the next release you have mentioned with the raw data screen.

Clay W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

68. [wxsig] Humidity status

From: "William Beals" <will@beals5.com>
Date: Tue, 20 Feb 2001 22:07:50 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136483-2001.02.20-23.18.47--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Lots of discussions on the humidity sensor and getting data out of it. Russ forwarded me a passel of emails on the Dallas [weather] reflector where the PC folk are having problems too. It appears that getting data out of the DS2450 may be error prone and need some additional checks before it can be considered valid.

I have some ideas I want to implement that will scrub the data a lot better and will get those incorporated over the next few weeks. In the interim I am adding some debug stuff so you can report some of the raw data to me in support of confirming the problem is with the data gathering, not the computational math.

I do know that my humidity sensor packing appears to be too airtight. We have pea soup fog outside and my humidity reading is 38%. I have it in a small pocket-knife case that doesn't have that much ventilation, but it clearly needs more. The last time I gave the sensor a big swing in humidity, it took almost 8 hours to catch up. I need a better arrangement!

I will be off on a trip for a couple of days, so I may be a bit scarce on emails if I can't get email access on my trip. I will be taking the code with me for entertainment purposes while flying around.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

69. [wxsig] Clays data

From: "William Beals" <will@beals5.com>
Date: Tue, 20 Feb 2001 22:07:52 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136482-2001.02.20-23.18.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay:

Looking at the data you showed, it certainly looks like the software you are
using forgot to handle negative numbers. -1 in binary is all 1's. All 1's
for an 8-bit positive value turns out to be 255. I think the program you
are using as a reference forgot to take signed math into account.

For now, thanks for continuing to observe. We may have lots of bugs
competing to see who is the biggest. I'll be adding some more debug stuff
shortly--hopefully over the weekend.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

70. [wxsig] Re: Humidity status

From: "Rich Beckwith" <Rich@dps.state.mo.us>
Date: Wed, 21 Feb 2001 08:31:52 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136572-2001.02.21-08.46.04--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

DS2450? The humidty sensor uses a DS2438 right? I think there are issues with the DS2450 being flaky,
but not the DS2438. Reliability is one of the reasons they used the DS2438 in the first place.

Rich - Wn0x

>>> will@beals5.com 02/20/01 11:07PM >>>
Folks:

Lots of discussions on the humidity sensor and getting data out of it. Russ
forwarded me a passel of emails on the Dallas [weather] reflector where the
PC folk are having problems too. It appears that getting data out of the
DS2450 may be error prone and need some additional checks before it can be
considered valid.

...

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

71. [wxsig] Humidity - WOW

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Wed, 21 Feb 2001 20:17:15 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136728-2001.02.21-20.31.39--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Wow, my humidity is all over the place. Don't know what is up.

http://www.findu.com/cgi-bin/wxpage.cgi?call=WN0X-3&last=120

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

72. [wxsig] RE: Humidity - WOW

From: "William Beals" <will@beals5.com>
Date: Wed, 21 Feb 2001 20:17:28 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136741-2001.02.21-21.34.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

I've seen a few excursions like that on my findu display as well. Not sure
what it is. I'm pretty sure it is on my end, but since findu plots dewpoint
and I show RH, I need to use the formula to compare the two.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Rich Beckwith
Sent: Wednesday, February 21, 2001 7:17 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Humidity - WOW

Wow, my humidity is all over the place. Don't know what is up.

http://www.findu.com/cgi-bin/wxpage.cgi?call=WN0X-3&last=120

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

73. [wxsig] T238 Status on humidity sensor

From: Doug <dbuhrman@radiks.net>
Date: Wed, 21 Feb 2001 22:11:43 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136747-2001.02.21-22.27.17--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

William Beals wrote:

> Folks:
>
> First a request, can I get feedback from the folk with humidity sensors,
> good or bad. I suspect I'm not getting reliable data yet. Looking at my
> data I've seen huge swings which I'm pretty certain are not accurate.
> Trouble is its easy to visualize and test wind, rain, and temperature.
> Humidity is a bit tougher.
>

I've installed the Dallas humidity sensor on my T238 and I'm running the 1.12.0
code. I've noticed the following:
1) The humidity reading on the LCD will drop to zero then return back to normal.
2) There is a corresponding hit on the error counter page.
3) The humidity reading ends up in the rainfall column using WinAPRS v2.4.6
4) The area where it shows "e1w" is garbage.
5) Nothing shows up in the humidity column.
6) The packet as received looks fine.
7) Items 3, 4, and 5 are fine when I go back to T238 v1.11.0

On another subject, what are the new symbols by the wind speed readings?

Thanks again Will for you hard work.

Doug   K0DSP

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

74. [wxsig] Re: Humidity status

From: "Russ Chadwick" <crb5@qwest.net>
Date: Wed, 21 Feb 2001 17:30:22 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136712-2001.02.21-18.45.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Rich,

Yes, the humidity sensor uses the DS2438 chip which is a battery monitor chip that came available after the DS2450 which is a quad A/D converter. Dan Awtrey told me that they were developing the humidity sensor around the DS2450, but when the DS2438 became available he changed to it because it was cheaper, but still had enough functionality to use with the Honeywell humidity sensor that he was using.

I'm sure that Will mistyped the number and he really meant the DS2438. I have not heard of any reliability problems (or problems of any kind) with the DS2450 quad A/D converter.

Russ
kb0tvj

----- Original Message -----
From: Rich Beckwith <Rich@dps.state.mo.us>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Wednesday, February 21, 2001 7:31 AM
Subject: [wxsig] Re: Humidity status

DS2450? The humidty sensor uses a DS2438 right? I think there are issues with the DS2450 being flaky, but not the DS2438. Reliability is one of the reasons they used the DS2438 in the first place.

Rich - Wn0x

>>> will@beals5.com 02/20/01 11:07PM >>>
Folks:

Lots of discussions on the humidity sensor and getting data out of it. Russ forwarded me a passel of emails on the Dallas [weather] reflector where the PC folk are having problems too. It appears that getting data out of the DS2450 may be error prone and need some additional checks before it can be considered valid.

...

You are currently subscribed to wxsig as: crb5@uswest.net
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

75. [wxsig] Re: Humidity status

From: "William Beals" <will@beals5.com>
Date: Wed, 21 Feb 2001 19:57:01 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136740-2001.02.21-21.29.38--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ and Rich:

Oops, got the sensors confused. I have 2450s on the brain too as that is

what the AAG sensor uses.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Russ Chadwick
Sent: Wednesday, February 21, 2001 5:30 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Humidity status

Hi Rich,

Yes, the humidity sensor uses the DS2438 chip which is a battery monitor chip that came available after the DS2450 which is a quad A/D converter. Dan Awtrey told me that they were developing the humidity sensor around the DS2450, but when the DS2438 became available he changed to it because it was cheaper, but still had enough functionality to use with the Honeywell humidity sensor that he was using.

I'm sure that Will mistyped the number and he really meant the DS2438. I have not heard of any reliability problems (or problems of any kind) with the DS2450 quad A/D converter.

Russ
kb0tvj

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

76. [wxsig] Re: Humidity status

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Thu, 22 Feb 2001 06:57:09 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136810-2001.02.22-07.13.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

So which one do we by to run with 1.12.0??
Bill N5ZTW

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

77. [wxsig] Re: Humidity - WOW

From: "Clay Bartholow" <w0led@arrl.net>
Date: Thu, 22 Feb 2001 12:3:5
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136867-2001.02.22-12.17.52--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich,
I'm taking the following from Russ's daily report:

```
WN0X-3    @211304z_057/004g008t018P000r000h34e1w 013D291B5F1DF0
WN0X-3    @211804z_090/007g009t022P000r000h89e1w 01412E256122F0
WN0X-3    @212104z_094/008g011t024P000r000h82e1w 0144342D6528EF
WN0X-3    @220104z_073/007g010t018P000r000h09e1w 01463A336930F2
WN0X-3    @220204z_081/010g015t019P000r000h02e1w 01463A336930F0
WN0X-3    @220404z_072/004g007t019P000r000h04e1w 014900396B32EF
WN0X-3    @220504z_051/002g003t018P000r000h09e1w 014A013A6C33F3
WN0X-3    @220604z_052/002g003t018P000r000h14e1w 014D043D6C34F1
```

I noticed that when the T238 was displaying RH above 100% the reported value was truncated to a two-digit value. So if the T238 was displaying a RH of 112% (on average) then the 5-minute APRS report was sent as h12. I suspect that the RH values you see in the last few lines above may be a reflection of the 100%+ RH values that Russ and I have seen. And, of course, if the value is truncated to two digits then the computed dewpoint that findu shows will swing pretty radically.

Clay W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org

To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

78. [wxsig] Re: Humidity status

From: Guy Story <kc5goi@tapr.org>
Date: Thu, 22 Feb 2001 10:32:13 -0600 (CST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136836-2001.02.22-10.46.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I received my DSHS01K kit today. I am gong to install it this evening and
see if I get simular results as everyone else. Will, refresh my memory,
will I need to re-run the cal on the wiind sensor for this? I think I
will. I also received the DS1920 but not the button holder. I my try to
klug a battery holder since I am the impatient type. Ah, the feeling of
new toys arriving in the mail.

73,

Guy Story
KC5GOI
kc5goi@tapr.org
http://www.kc5goi.net

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

79. [wxsig] Re: Humidity status

From: "Rich Beckwith" <Rich@dps.state.mo.us>
Date: Thu, 22 Feb 2001 14:49:44 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136899-2001.02.22-15.03.41--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yes, you will need to re-run the recalibration routine.   When you set the time on the DS1994 make sure and NOT select the write protect option.

>>> kc5goi@tapr.org 02/22/01 10:32AM >>>
I received my DSHS01K kit today. I am gong to install it this evening and
see if I get simular results as everyone else. Will, refresh my memory,
will I need to re-run the cal on the wiind sensor for this? I think I
will. I also received the DS1920 but not the button holder. I my try to
klug a battery holder since I am the impatient type. Ah, the feeling of
new toys arriving in the mail.

73,

Guy Story
KC5GOI
kc5goi@tapr.org
http://www.kc5goi.net

You are currently subscribed to wxsig as: rich@dps.state.mo.us
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

80. [wxsig] Re: Humidity - WOW

From: "Rich Beckwith" <Rich@dps.state.mo.us>
Date: Thu, 22 Feb 2001 12:18:00 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136868-2001.02.22-12.32.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

But you can only have a high of 100% humidty right? Otherwise its precipitating?

>>> w0led@arrl.net 02/22/01 12:03PM >>>

Rich,
   I'm taking the following from Russ's daily report:

```
WN0X-3    @211304z_057/004g008t018P000r000h34e1w 013D291B5F1DF0
WN0X-3    @211804z_090/007g009t022P000r000h89e1w 01412E256122F0
WN0X-3    @212104z_094/008g011t024P000r000h82e1w 0144342D6528EF
WN0X-3    @220104z_073/007g010t018P000r000h09e1w 01463A336930F2
WN0X-3    @220204z_081/010g015t019P000r000h02e1w 01463A336930F0
WN0X-3    @220404z_072/004g007t019P000r000h04e1w 014900396B32EF
WN0X-3    @220504z_051/002g003t018P000r000h09e1w 014A013A6C33F3
WN0X-3    @220604z_052/002g003t018P000r000h14e1w 014D043D6C34F1
```

   I noticed that when the T238 was displaying RH above 100% the reported value was truncated to a two-digit value. So if the T238 was displaying a RH of 112% (on average) then the 5-minute APRS report was sent as h12. I suspect that the RH values you see in the last few lines above may be a reflection of the 100%+ RH values that Russ and I have seen. And, of course, if the value is truncated to two digits then the computed dewpoint that findu shows will swing pretty radically.

Clay W0LED

You are currently subscribed to wxsig as: rich@dps.state.mo.us
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

81. [wxsig] Re: Humidity - WOW

From: "Clay Bartholow" <w0led@arrl.net>
Date: Thu, 22 Feb 2001 18:27:24
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136943-2001.02.22-18.42.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich,
   I agree 100% -- no pun intended... But I have seen data from the humidity sensor (as processed by the TMHUMID mini-app that is available on the DalSemi web site) that suggests that the RH can be _calculated_ to have a value that exceeds 100%. (I think that)it is likely that bad data in from the sensor results in a bad calculated RH. GIGO... The question that I have been trying to answer is why might the data in from the RH sensor be "bad" or at least questionable and under what circumstances might it be likely that the data be "bad". I have had my RH sensor attached to Arne Henriksen's WServer software and it doesn't produce RH values greater than 100% and I have to wonder why that is. Is there a timing issue with respect to accessing data from the DS2438? Is there different criteria applied to the data, as read from the sensor, that throws out "bad" data rather than include it in the averages? I don't know but I (we) are keenly interseted...

Clay W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

82. [wxsig] Re: Humidity - WOW

From: "William Beals" <will@beals5.com>
Date: Thu, 22 Feb 2001 21:54:03 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136976-2001.02.22-23.18.20--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Gentlemen:

You are correct, for this first round I simply plunk in the last two digits of the humidity in the hxx field of the APRS string. I could go in and limit it to 100%, but that would be just masking the real problem.

Clay: If you have some software that gives reliable data and some that does not, that suggests that at least there is a software solution to the problem. I looked at the THUMID software when I wrote my code and may have ended up copying whatever problems they have.
Is the source code for WServer available for peeking at?

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Clay Bartholow
Sent: Thursday, February 22, 2001 6:27 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Humidity - WOW

Rich,
   I agree 100% -- no pun intended... But I have seen data from the
humidity sensor (as processed by the TMHUMID mini-app that is available on
the DalSemi web site) that suggests that the RH can be _calculated_ to have
a value that exceeds 100%. (I think that)it is likely that bad data in
from the sensor results in a bad calculated RH. GIGO... The question that
I have been trying to answer is why might the data in from the RH sensor be
"bad" or at least questionable and under what circumstances might it be
likely that the data be "bad". I have had my RH sensor attached to Arne
Henriksen's WServer software and it doesn't produce RH values greater than
100% and I have to wonder why that is. Is there a timing issue with
respect to accessing data from the DS2438? Is there different criteria
applied to the data, as read from the sensor, that throws out "bad" data
rather than include it in the averages? I don't know but I (we) are keenly
interseted...

Clay W0LED

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

83. [wxsig] Re: Humidity status

From: "William Beals" <will@beals5.com>
Date: Thu, 22 Feb 2001 21:45:46 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136978-2001.02.22-23.18.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill:

Theoretically any of the three offerings (bare board with & without light
sensor, and also the button style. Right now I don't mess with the light
sensor readings.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Ellis
Sent: Thursday, February 22, 2001 5:57 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Humidity status

So which one do we by to run with 1.12.0??
Bill N5ZTW

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

84. [wxsig] Re: Humidity - WOW

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Thu, 22 Feb 2001 23:39:48 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>

Message-ID: <LYR15067-136985-2001.02.22-23.53.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

What bugs me is that I have worked with the DS2438 on my BP sensor project and I don't see how you could get voltage swings from the A/D converter that would give those kind of readings. The BP sensor I am using basically swings from about 2.5 volts to 4.5 volts and is as steady as a clock within that range.

I finished etching my BP sensor board tonight and plan on replacing the RH sensor with the BP sensor in the next few days and see what happens. This will obviously give very strange RH sensor readings but if they are consistent it might help us determine where the issue is. The BP sensor uses a seperate 5V supply so will not load the bus, and doesn't require climbing a roof to install or test.

Rich - Wn0x

>Rich,
> I agree 100% -- no pun intended... But I have seen data from the
>humidity sensor (as processed by the TMHUMID mini-app that is available on
>the DalSemi web site) that suggests that the RH can be _calculated_ to have
>a value that exceeds 100%. (I think that)it is likely that bad data in
>from the sensor results in a bad calculated RH. GIGO... The question that
>I have been trying to answer is why might the data in from the RH sensor be
>"bad" or at least questionable and under what circumstances might it be
>likely that the data be "bad". I have had my RH sensor attached to Arne
>Henriksen's WServer software and it doesn't produce RH values greater than
>100% and I have to wonder why that is. Is there a timing issue with
>respect to accessing data from the DS2438? Is there different criteria
>applied to the data, as read from the sensor, that throws out "bad" data
>rather than include it in the averages? I don't know but I (we) are keenly
>interseted...
>
>Clay W0LED
>
>---
>You are currently subscribed to wxsig as: wn0x@earthlink.net
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

85. [wxsig] RE: T238 Status on humidity sensor

From: "William Beals" <will@beals5.com>
Date: Thu, 22 Feb 2001 21:18:38 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-136979-2001.02.22-23.18.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Doug:

Thanks for the nice words and comments. I'll address the ones I think I can.

1&2) I should put up dashes if I get an error hit, I will look into that. Right now the only error condition is a CRC error writing or reading the data from the sensor, so you may want to check your cabling, etc.
3-5) This is strange. If the packet looks fine, I'm not sure why WinAPRS is messing things up. I must admit I don't use WinAPRS anymore as I find findu.com fits my my needs better. I will go look at this and see if I can make any sense out of what is going on. WinAPRS never did like my e1w identifer, but I got assurances from the man that I was OK and that the spec would be ammended to include stations like mine (loooong story, ask if you want details)

On the symbols: They are relatively cheesy ways of cramming more data into smaller spaces. The first symbol is an MH on top of eachother denoting Miles per Hour (vs KH on the metric screen). The second is MX symbolizing MaXimum speed since midnight. These are not the greatest and all they do is put off the evenutal complete reformatting of the screens when I end up adding barometric pressure when that sensor comes out. When that happens, that main status screen will get split up into two screens. I'd personally prefer to cram as much stuff as I can on one screen, but I think I've hit the limit.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Doug
Sent: Wednesday, February 21, 2001 9:12 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] T238 Status on humidity sensor

I've installed the Dallas humidity sensor on my T238 and I'm running the
1.12.0
code. I've noticed the following:
1) The humidity reading on the LCD will drop to zero then return back to
normal.
2) There is a corresponding hit on the error counter page.
3) The humidity reading ends up in the rainfall column using WinAPRS v2.4.6
4) The area where it shows "e1w" is garbage.
5) Nothing shows up in the humidity column.
6) The packet as received looks fine.
7) Items 3, 4, and 5 are fine when I go back to T238 v1.11.0

On another subject, what are the new symbols by the wind speed readings?

Thanks again Will for you hard work.

Doug   K0DSP

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

86. [wxsig] Re: Humidity - WOW

From: "William Beals" <will@beals5.com>
Date: Fri, 23 Feb 2001 21:41:29 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-137130-2001.02.23-22.57.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay (and all):

Thanks for the nice words. It really helps to have a nice crew of folk
using the board and offering all the constructive help and suggestions.
Russ is a really nice guy to work with too. I get to bury myself in the
project details while Russ makes sure I do it theoretically right and
handles a lot of the communications outside this reflector (and there is a
lot!). The entire TAPR crew has also been amazingly helpful. I feel very
comfortable doing the hardware and software design, but I'd be lost dealing
with all the details of PCB layout, parts ordering, kit assembling, etc.
This is my first ever kit (and I think Russ's too), so it certainly warms
one up to thinking about more kits.

I guess that turned out to be a pretty extensive list of credits. They are
all well-deserved and probably overdue. Russ and I may be the more visible
ones on this reflector, but there is a huge crew that makes the whole thing
work. If any of you out there are not members of TAPR, hopefully the fun
you get from this project will convince you they deserve your support.

Thanks for the website address. I'm doing email offline right now, so when
I get back online I'll check out the website for any possible clues.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Clay Bartholow
Sent: Friday, February 23, 2001 5:45 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Humidity - WOW

Will,
   First things first - I want to echo Doug's comments and thank you for
the hard work you and Russ have been doing with the T238 and supporting it
here.

   Second, as to the Wserver software, I haven't seen any reference to the
source for it. I don't know if you've been to the web site but here's the
URL in case you want to look at what's there:

http://weather.henriksens.net/

Clay W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

87. [wxsig] Re: Humidity - WOW

From: "Clay Bartholow" <w0led@arrl.net>
Date: Fri, 23 Feb 2001 17:44:50
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-137111-2001.02.23-17.59.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,
First things first - I want to echo Doug's comments and thank you for the hard work you and Russ have been doing with the T238 and supporting it here.

Second, as to the Wserver software, I haven't seen any reference to the source for it. I don't know if you've been to the web site but here's the URL in case you want to look at what's there:

http://weather.henriksens.net/

Clay W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

88. [wxsig] Re: T238 Status - Online

From: John Vause <jdv@iglou.com>
Date: Sat, 24 Feb 2001 14:04:55 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-137208-2001.02.24-13.19.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Humidity sensor now online outside.

I'm seeing 1-wire bus voltage of 4.11 volts when humidity sensor
and wind/temp/rain sensors are online. 5.02 volts if no sensors
are plugged in. This occurs whether the sensors are on the antenna mast
outside (approx. 75 ft of CAT 3 commo cable) or indoors on a 3 ft.
satin phone wire.
If I just plug in humidity sensor the bus sags to 4.72 volts.

73
--
* John Vause KF4ERV jdv@igloudot.com   *
* NOTE: email address altered for benefit of Spambots *
* "Necessity is the plea of every infringement of   *
* human freedom. It is the argument of tyrants;   *
* it is the creed of slaves." -- William Pitt   *
--

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

89. [wxsig] Re: T238 Status - Online

From: "William Beals" <will@beals5.com>
Date: Sat, 24 Feb 2001 14:13:38 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-137233-2001.02.24-15.28.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

John:

I see a similar incremental drop when I installed my humidity sensor. A large voltage drop when you intall the wind/direction sensor is not very normal. That board should not draw any quiescent current, so if it is, there is likely a minor problem with it. This is typically the static protection diode that is not behaving itself. I'd suggest just leaving it alone unless it gets worse.

A small voltage drop on the bus voltage when you plug in the humidity sensor
is normal and expected. The way they put the sensor together, it is
contantly powered by the bus. If we ever start getting too many sensors
drawing too much current, we have a spare dedictated +5V line.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of John Vause
Sent: Saturday, February 24, 2001 12:05 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: T238 Status - Online

Humidity sensor now online outside.

I'm seeing 1-wire bus voltage of 4.11 volts when humidity sensor
and wind/temp/rain sensors are online. 5.02 volts if no sensors
are plugged in. This occurs whether the sensors are on the antenna mast
outside (approx. 75 ft of CAT 3 commo cable) or indoors on a 3 ft.
satin phone wire.
If I just plug in humidity sensor the bus sags to 4.72 volts.

73
--
* John Vause KF4ERV jdv@igloudot.com   *
* NOTE: email address altered for benefit of Spambots *
* "Necessity is the plea of every infringement of   *
* human freedom. It is the argument of tyrants;   *
* it is the creed of slaves." -- William Pitt   *
--

You are currently subscribed to wxsig as: will@beals5.com
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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

90. [wxsig] Re: T238 Status - Online

From: John Vause <jdv@iglou.com>
Date: Sat, 24 Feb 2001 16:54:41 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-137236-2001.02.24-16.09.46--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I've already replaced the ESD diode with a 5.1 v zener.
The original DS9502 diode was zapped last summer by lightning EMP.

73

William Beals wrote:
>
> John:
>
> I see a similar incremental drop when I installed my humidity sensor. A
> large voltage drop when you intall the wind/direction sensor is not very
> normal. That board should not draw any quiescent current, so if it is,
> there is likely a minor problem with it. This is typically the static
> protection diode that is not behaving itself. I'd suggest just leaving it
> alone unless it gets worse.
>
> A small voltage drop on the bus voltage when you plug in the humidity sensor
> is normal and expected. The way they put the sensor together, it is
> contantly powered by the bus. If we ever start getting too many sensors
> drawing too much current, we have a spare dedictated +5V line.
>
> will
>
>>SNIP<<

--
* John Vause KF4ERV jdv@igloudot.com   *
* NOTE: email address altered for benefit of Spambots *

```
* "Necessity is the plea of every infringement of     *
*  human freedom. It is the argument of tyrants;      *
*  it is the creed of slaves." -- William Pitt        *
--

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

91. [wxsig] Dumb, dumber, and dumber-est

```
From: "William Beals" <will@beals5.com>
Date: Sun, 25 Feb 2001 19:02:26 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-137439-2001.02.25-20.17.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

```
Folks:

A bit of a setback.  I spent a lot of spare time on my business trip and
this weekend making a lot of changes for the 1.12.1 release.  Alas, when I
got back this evening to sync things up, I copied the files the wrong way,
erasing most of my changes.  Ouch!  I couldn't get Windoze briefcase to work
reliably between Win98 and WinME, so I've been doing things manually.  It
will take a bit to get back to where I was.

will

==============================================
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==============================================
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com


---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

92. [wxsig] Re: Dumb, dumber, and dumber-est

```
From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sun, 25 Feb 2001 21:20:00 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-137445-2001.02.25-21.33.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

```
Ouch!  I understand, BTDT.  Hope it won't be a real killer re-coding.

Rich - Wn0x

>Folks:
>
>A bit of a setback.  I spent a lot of spare time on my business trip and
>this weekend making a lot of changes for the 1.12.1 release.  Alas, when I
>got back this evening to sync things up, I copied the files the wrong way,
>erasing most of my changes.  Ouch!  I couldn't get Windoze briefcase to
work
>reliably between Win98 and WinME, so I've been doing things manually.  It
>will take a bit to get back to where I was.
>
>will
>
>==============================================
>This message sent using 100% recycled electrons.
>(minimum 30% post-consumer)
>==============================================
>Will Beals
>15014 East Idaho Place
>Aurora, CO 80012
>303-755-0293
>will@beals5.com
>
>
>---
>You are currently subscribed to wxsig as: wn0x@earthlink.net
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

93. [wxsig] Re: Dumb, dumber, and dumber-est

From: Gerry Creager n5jxs <gerry@cs.tamu.edu>
Date: Mon, 26 Feb 2001 08:07:24 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-137488-2001.02.26-08.22.14--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I left WinME on the kids' machine just for the add-ons. As soon as they
realize what a piece of work it is, they're either getting Linux, now
that it's pretty feature rich, or Win98SE.

WinME is a memory hog and a disk hog. It can drag their 700MHz PIII to
its knees. If it's the future of MS operating systems, the handwriting
is on the wall.

Gerry
--
Rich Beckwith wrote:
>
> Ouch! I understand, BTDT. Hope it won't be a real killer re-coding.
>
> Rich - Wn0x
>
> >Folks:
> >
> >A bit of a setback. I spent a lot of spare time on my business trip and
> >this weekend making a lot of changes for the 1.12.1 release. Alas, when I
> >got back this evening to sync things up, I copied the files the wrong way,
> >erasing most of my changes. Ouch! I couldn't get Windoze briefcase to
> work
> >reliably between Win98 and WinME, so I've been doing things manually. It
> >will take a bit to get back to where I was.

--
Gerry Creager -- gerry@cs.tamu.edu
Network Engineering |Research focusing on
Academy for Advanced Telecommunications |Satellite Geodesy and
and Learning Technologies |Geodetic Control
Texas A&M University   979.458.4020 (Phone) -- 979.847.8578 (Fax)

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

94. [wxsig] Re: Dumb, dumber, and dumber-est

From: "G. Beat" <gregory.beat@mediaone.net>
Date: Mon, 26 Feb 2001 18:18:59 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-137597-2001.02.26-18.34.02--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Gerry -

Just installed Win 2000 (dumped Win ME after 5 months ... It is a DOG).

MUCH better ... now all peripherals work (execpt that W2K still have the NT4
bug of trying to add a serial mouse to the TAC32 port !!)

G. Beat
----- Original Message -----
From: "Gerry Creager n5jxs" <gerry@cs.tamu.edu>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Monday, February 26, 2001 8:07 AM
Subject: [wxsig] Re: Dumb, dumber, and dumber-est

> I left WinME on the kids' machine just for the add-ons. As soon as they
> realize what a piece of work it is, they're either getting Linux, now
> that it's pretty feature rich, or Win98SE.
>
> WinME is a memory hog and a disk hog. It can drag their 700MHz PIII to

> its knees. If it's the future of MS operating systems, the handwriting
> is on the wall.
>
> Gerry
> --
> Rich Beckwith wrote:
> >
> > Ouch! I understand, BTDT. Hope it won't be a real killer re-coding.
> >
> > Rich - Wn0x
> >
> > >Folks:
> > >
> > >A bit of a setback. I spent a lot of spare time on my business trip
and
> > >this weekend making a lot of changes for the 1.12.1 release. Alas,
when I
> > >got back this evening to sync things up, I copied the files the wrong
way,
> > >erasing most of my changes. Ouch! I couldn't get Windoze briefcase to
> > work
> > >reliably between Win98 and WinME, so I've been doing things manually.
It
> > >will take a bit to get back to where I was.
>
> --
> Gerry Creager -- gerry@cs.tamu.edu
> Network Engineering |Research focusing on
> Academy for Advanced Telecommunications |Satellite Geodesy and
> and Learning Technologies |Geodetic Control
> Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)
>
> ---
> You are currently subscribed to wxsig as: gregory.beat@mediaone.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
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March 2001

Original source file: wxsig.0103
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0103

1. [wxsig] Storm Season & T238

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Thu, 1 Mar 2001 22:48:51 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-138248-2001.03.01-23.09.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Just got back from our annual SkyWarn Wx spotter training and am primed for
another storm season. One thought occured to me as we plan to deploy T238s
South and West of our spotter area... It would be really cool if when wind
gusts exceeded 60MPH the T238 would send the accumulated Wx data
immediately.

Five minutes is a long time to wait for data with a fast moving front.

Just and idea...

Regards,

Rich Beckwith

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Re: Storm Season & T238

From: "Dale Huguley" <kg5qd@earthlink.net>
Date: Fri, 2 Mar 2001 11:24:08 -0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-138272-2001.03.02-05.40.08--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi All-
    Rich Beckwith said:

> It would be really cool if when wind
> gusts exceeded 60MPH the T238 would send the accumulated Wx data
> immediately.
>
> Five minutes is a long time to wait for data with a fast moving front.
>

In a Hurricane this would tend to overload the system- I think having the
trigger be the delta (change) in wind speed rather than the absolute might
be a better solution.

73 de kg5qd Dale

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Re: Storm Season & T238

From: Michael Barelli "W□MAF" <barelmic@yahoo.com>
Date: Fri, 2 Mar 2001 14:29:54 -0800 (PST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-138369-2001.03.02-16.45.02--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

My thought was to have a switch to send data once a minute or some varable depending on where these are
located 1 to 5 min.

  Rich Beckwith <wn0x@earthlink.net> wrote:
Just got back from our annual SkyWarn Wx spotter training and am primed for
another storm season. One thought occured to me as we plan to deploy T238s
South and West of our spotter area... It would be really cool if when wind
gusts exceeded 60MPH the T238 would send the accumulated Wx data
immediately.

Five minutes is a long time to wait for data with a fast moving front.

Just and idea...

Regards,

Rich Beckwith

You are currently subscribed to wxsig as: barelmic@yahoo.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

Michael Barelli W□MAF

Do You Yahoo!?
Yahoo! Mail Personal Address - Get email at your own domain with Yahoo! Mail.

4. [wxsig] Alarm messages

From: "William Beals" <will@beals5.com>
Date: Fri, 2 Mar 2001 22:26:53 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-138441-2001.03.02-23.41.41--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Alarm messages are on my wish-list of things to do. My general theory (and
this is open to discussion) is if alarms are enabled, then as the wind
exceeds 5 or 10-MPH increments, an alarm message would be sent out. I
figured I would just reset it at midnight or something. The same would
probably be done for temperature as well--at least for low temperature.

Alas this is on my list of things where my ideas exceed the time I have to
code them. This is on my longer term list of fun thing to add.

will

==
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] Re: Alarm messages

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sat, 3 Mar 2001 11:10:16 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-138553-2001.03.03-11.24.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I here ya. Have the same problem myself, especially if I want a life
outside of coding!

Regards,

Rich Beckwith - Wn0x

>Folks:
>
>Alarm messages are on my wish-list of things to do. My general theory (and
>this is open to discussion) is if alarms are enabled, then as the wind
>exceeds 5 or 10-MPH increments, an alarm message would be sent out. I
>figured I would just reset it at midnight or something. The same would
>probably be done for temperature as well--at least for low temperature.
>

>Alas this is on my list of things where my ideas exceed the time I have to
>code them. This is on my longer term list of fun thing to add.
>
>will
>
>==
>This message sent using 100% recycled electrons.
>(minimum 30% post-consumer)
>==
>Will Beals
>15014 East Idaho Place
>Aurora, CO 80012
>303-755-0293
>will@beals5.com
>
>
>---
>You are currently subscribed to wxsig as: wn0x@earthlink.net
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] Re: Alarm messages

From: "Mykle Raymond" <n7jzt@arrl.net>
Date: Sat, 3 Mar 2001 10:51:45 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-138558-2001.03.03-12.06.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Will said:
> Alarm messages are on my wish-list of things to do. My general theory (and
> this is open to discussion) is if alarms are enabled, then as the wind
> exceeds 5 or 10-MPH increments, an alarm message would be sent out. I
> figured I would just reset it at midnight or something. The same would
> probably be done for temperature as well--at least for low temperature.

May I suggest that this be a simple system. Watch for a variable that changes
by more than the defined increment during the current interval between packets.
If one does, then send a packet immediately, reset the normal timers and continue normally.

The defined increments could be zero (don't watch this value), or a positive
value (10 mph for wind, 30 degrees for wind direction, 5 degrees for temperature,
5 mb for pressure, just for examples).

For instance, packets are normally transmitted every 15 minutes, such as:
0, 15, 30, 45, 60, ...
If the temp suddenly rises by more than 5 degrees after the 30 minute transmission,
your system would send an immediate packet, then reset timers, and continue:
0, 15, 30, 35, 50, 65, ...

A major side effect of watching for changes like this, is that your normal packet
interval can be increased, perhaps doubling. You won't worry about missing short
term significant changes. So the network load drops as well.

Even if you change your normal interval from 15 to 20 minutes, that is still a good
reduction in network load.

This concept can be applied to any APRS application. The HamHUD does something
similar with bearings, sending a packet when you turn a corner. We need to apply
this to position as well, so if you are not moving, then use a much longer transmit
interval. Other programs are picking up this concept, and it looks like Wx can
benefit alot from it as well.

Before everyone goes to sleep, I'll move back into the woodwork.

(Can local sea level be monitored? Sure would be nice to know when a tidal wave
is arriving, and set off a BIG alarm! Even better would be for Washington to tell
the rest of the Pacific basin that they DIDN'T send a tidal wave!)

Aloha from Hawaii, but back to Tucson next week,
Mykle N7JZT

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] Wx station and KPC-3

From: Russ Hummel <hummel@HSC.VCU.EDU>
Date: Mon, 05 Mar 2001 11:07:50 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-138912-2001.03.05-10.23.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Well I got all the WX station stuff going and calibrated. The unit sends
out data every 5 minutes in 5 minute TNC LPT format. The data string is
started w/ a @ followed by two digits for the DAY of the month and then
time Zulu. Next follows a _ and what appears to be the WX data. So the
first question is: When setting the KPC-3 up do I tell the TNC to look
for the _ character as the beginning of the data to beacon? Or should it
look for the @ which is the first character in the data stream.
If anybody else has set up a KPC-3 with the T238 I would be interested in
hearing what TNC parameters (GPSHEAD, BLT, etc.) you set to make
everything happy

A request: would it be possible on a future software release to include
the display of a second temperature from a 2nd sensor on one of the
secondary screens.

Thanks Russ Hummel
Russ Hummel   CTA2RD
Biomedical Engineer & LAN Manager
Dept of Anesthesiology
Medical College of VA @ VCU
804-828-2212

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] Re: Wx station and KPC-3

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Mon, 05 Mar 2001 10:14:01 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-138916-2001.03.05-10.31.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ, I use a KPC3+
GPSHEAD of @ would be used if you want a position string added.
I use _ with just wx data every 5 minutes.
With the KPC3 you can put your position and other station data in
another BLT and beacon it less often Like every 29 minutes and every 59
minutes.
Let me get my print-out tonite of my settings and I'll give you all the
details tommorow.
Bill N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] Parallax to support 1-wire soon

From: "William Beals" <will@beals5.com>
Date: Mon, 5 Mar 2001 21:26:10 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139021-2001.03.05-22.40.52--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

I saw an ad a few weeks ago that Parallax (makers of the Basic Stamp) will
be supporting the 1-wire protocol soon. For those of you that want to play
with 1-wire but are smart enough to stay away from assembly language, you
may have an option soon. The basic stamps are too slow to implement 1-wire
protocol in user-code, but with some drivers for the basic bits, you should
be able to start playing if you feel the need.

They do appear to be on backorder for a bit, but the part number is the
Basic Stamp 2P (BS2P)

will

```
================================================
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
================================================
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com


---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

10. [wxsig] RE: Wx station and KPC-3

```
From: "William Beals" <will@beals5.com>
Date: Mon, 5 Mar 2001 21:26:14 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139022-2001.03.05-22.41.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ:

My code has a limitation that it can only handle two parts with the same ID
max.  Some folk already have two sensors, mainly the earlier folk that got
the old DS1820 temperature sensors and just added the new DS18S20.  This is
a feature that could be added, but it would need to be under the condition
that any of the older folk would no have to remove the old sensor in favor
of the internal one.

As you are the third person or so to request it, I'll add it to the wish
list.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Russ Hummel
Sent: Monday, March 05, 2001 9:08 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Wx station and KPC-3



Well I got all the WX station stuff going and calibrated. The unit sends
out data every 5 minutes in  5 minute  TNC LPT format. The data string is
started w/ a @ followed by two digits for the DAY of the month and then
time Zulu. Next follows a _ and what appears to be the WX data. So the
first question is:   When setting the KPC-3 up do I tell the TNC to look
for the _ character as the beginning of the data to beacon? Or should it
look for the @ which is the first character in the data stream.
If anybody else has set up a KPC-3 with the T238 I would be interested in
hearing what TNC parameters  (GPSHEAD, BLT, etc.) you set to make
everything happy

A request: would it be possible on a future software release to include
the  display of a second temperature from a 2nd sensor on one of the
secondary screens.

Thanks  Russ  Hummel
Russ Hummel   CTA2RD
Biomedical Engineer & LAN Manager
Dept of Anesthesiology
Medical College of VA @ VCU
804-828-2212


---
You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org


---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

11. [wxsig] Humidity sensor ...

From: "Mark Phillips" <g7ltt@g7ltt.com>
Date: Tue, 6 Mar 2001 05:36:39 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139062-2001.03.06-04.51.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Folks,

Did we get anywhere with the humidity sensor? Last I hear the software was a
bit erratic in its reports.

Mark Phillips, G7LTT/KC2ENI
New York, NY - 11103
40' 45.781N 073' 54.472W
http://www.g7ltt.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] Re: Wx station and KPC-3

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Tue, 06 Mar 2001 08:08:56 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139093-2001.03.06-08.26.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ,
Set the T238 for TNC LTP with a baud of 9600
Try the following as it works well with my KPC3:
ABAUD 9600
as long as its the same as the T238 any baud from 2400-9600 is good I
have tested as them.
GPSHEAD 2 _
GPSHEAD 4 _
Leave 1 & 3 blank
These are the headers from the T238 in the TNC LTP mode.
@ is used if you enable the T238 "position Header" Don't enable the T238
"position header" as you can send the same info but less often (better)
with a KPC3 as follows:

LT 1 !3013.60NN09811.75W_PHG7238/A=001470/EMAIL N5ZTW@arrl.net
LT 3 !3013.60NN09811.75W_PHG7238/A=001470/EMAIL N5ZTW@arrl.net
Use your lat ang long numbers. PHG codes can be found in the APRS spec
that can be downloaded from the tapr site
http://www.tapr.org/tapr/html/Faprswg.html
A= is altitude mine is 1470' above sea level. put your own comment after
the /

Leave LT 2 & 4 blank the wx info from the T238 will fill in these two
buffers as specified by the GPSHEAD 2, 4 statments

BLT 1 EVERY 00:31:00
This is your position packet from LT 1, Set this for a longer delay as
not to clog up the band with your fixed position every 5 minutes or so.
BLT 2 EVERY 00:04:45
This is your wx data from the T238 I set mine just under the 5 minute
mark so that a packet is not missed thus sending 10 minute old data.
BLT 3 EVERY 00:58:00
Again position
BLT 4 EVERY 00:04:50
wx again for a second chance

LTP 1 APRS VIA KB5VOC-2,N5ZTW,WB5ABC,WIDE
Position data, Pick a known good digi path, try to find one that has an
Igate if possible
LTP 2 APRS VIA KB5VOC-2,N5ZTW,WB5ABC,WIDE
same path but for wx data now and more often.
LTP 3 APRS VIA N1ABC,K2DEF-1,W3GHI,WIDE
try to find a second good path for your position report
LTP 4 APRS VIA N1ABC,K2DEF-1,W3GHI,WIDE
same second path but for wx this time

remember to set MYCALL to your call
XMITOK on
TXDELAY 35

RETRY 15
DIGIPEAT on
I have mine on as I'm in a good location and also digi other's reports
AX25L2V2 on

Remember the following few things because they bit me and caused a few
hours of frustration: 1. If you use one baud rate with your terminal
program to setup the KPC3 you must change your ABAUD back to the same
baud as the T238 BUT the baud will not change UNTIL you
A, type RESET <return> or
B, power cycle the KPC3.
This allows you to change the abaud at any time during your setup but
keep the existing baud rate ALSO remember to set the following very
last:
INTERFACE GPS
This puts the KPC3 in the "GPS" mode Now I know the T238 is not a GPS
but it spits out data in the same format so the KPC3 won't complain and
the KPC3 does not have a "T238" interface mode.

interface will be "terminal" during set-up

2. The manual for the KPC3+ says to issue three <Ctrl> <C>'s to reset
the GPS interface mode back to terminal. I found that you must have a
cap C not a lowercase c and for some reason "Caps Lock" won't work for
this! So if you have to go back into the KPC3 and re-configure, connect
to your computer, run your terminal program at the SAME baud as the T238
and press and hold <Ctrl> <Shift> and tap <c> three times. This will put
the KPC3 back in the terminal INTERFACE mode.

Hope this helps
Bill Ellis N5ZTW deep in the heart of Texas

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

13. [wxsig] Re: Humidity sensor ...

From: "Russ Chadwick" <crb5@qwest.net>
Date: Tue, 6 Mar 2001 09:07:25 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139117-2001.03.06-10.22.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Mark,

There are some humidity sensors deployed in 1 Wire/T-238 stations. They
appear to be working, but there is a known software problem. Occasionally,
the display indicates a RH value greater than 100%, which is not possible.
Will prepared some software to find the problem, but unfortunately, it was
lost in a software accident. He is right now preparing the software again
and in a week or so it should be ready.

You can get an idea of how the 1-Wire/T-238 stations are working by going to
this web page and looking through the text files. In the data part of the
packets, % relative humidity is the two numbers after "h". There is some
explanation in the readme.html file, but I'm just a beginner at html, so
check back often.

http://www.users.qwest.net/~crb5/

Another place to see how the deployed 1-Wire humidity sensors are working is
this page:

http://www-sdd.fsl.noaa.gov/MSAS/qcms_messages.html

Select the hourly column for APRSWXNET. If you see an entry under the dew
point column for AP001, AP003, or AP006, then that particular 1-Wire/T-238
weather station returned a questionable humidity reading during the past
hour.

However, recall that the humidity sensors are just in a deployment phase
and questionable data is not unexpected. Also, data can appear questionable
for local siting reasons. For example, in my data (AP001) the temperature
is often marked as questionable. I've compared the 1-Wire temperature
sensor with other thermometers and determined that it is measuring
correctly. What causes the questionable designation? Due to drainage flows
in the evening and early morning, my location is cooler than the surrounding
area. So temperature measurements here appear questionable when compared to
surrounding measurements. How do I know that my area is cooler? In the

spring, flowering shrubs and trees here bloom a week or two later than in
Boulder, about 5 miles to the SW. You can't fool Mother Nature.

Russ
kb0tvj

----- Original Message -----
From: Mark Phillips <g7ltt@g7ltt.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Tuesday, March 06, 2001 3:36 AM
Subject: [wxsig] Humidity sensor ...

> Hi Folks,
>
> Did we get anywhere with the humidity sensor? Last I hear the software was
a
> bit erratic in its reports.
>
> Mark Phillips, G7LTT/KC2ENI
> New York, NY - 11103
> 40' 45.781N 073' 54.472W
> http://www.g7ltt.com
>
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] RE: Parallax to support 1-wire soon

From: Bob Staley <BobS@Zonge.com>
Date: Tue, 6 Mar 2001 09:30:13 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139122-2001.03.06-10.48.48--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Also people might want to check out the Micro Engineering Labs PicbasicPro.
It has the capability to read and write x10 commands. Used with a TW253, it
could control the devices needed. It has an Xin and a Xout command to send
and receive x10 protocol.
There is an on line manual for the program at
http://microengineeringlabs.com/resources/pbpmanual/

If you are building more than a few devices, it is well worth using a
compiled program to run your micro.
Regards
Bob Staley

-----Original Message-----
From: William Beals [mailto:will@beals5.com]
Sent: Monday, March 05, 2001 9:26 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Parallax to support 1-wire soon

Folks:

I saw an ad a few weeks ago that Parallax (makers of the Basic Stamp) will
be supporting the 1-wire protocol soon. For those of you that want to play
with 1-wire but are smart enough to stay away from assembly language, you
may have an option soon. The basic stamps are too slow to implement 1-wire
protocol in user-code, but with some drivers for the basic bits, you should
be able to start playing if you feel the need.

They do appear to be on backorder for a bit, but the part number is the
Basic Stamp 2P (BS2P)

will

==========

This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: bobs@zonge.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

Zonge Engineering and Research Organization
http://www.zonge.com
3322 E. Ft. Lowell Rd.
Tucson, AZ 85716
(520) 327-5501
Fax: (520) 325-1588

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] Re: Wx station and KPC-3

From: "William Beals" <will@beals5.com>
Date: Tue, 6 Mar 2001 20:27:20 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139215-2001.03.06-21.42.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill:

Thanks for the instructions. That is an email worth archiving.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Ellis
Sent: Tuesday, March 06, 2001 7:09 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Wx station and KPC-3

Russ,
Set the T238 for TNC LTP with a baud of 9600
Try the following as it works well with my KPC3:

....

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] Cases for T-238?

From: Rich Mulvey <mulveyr@iname.com>
Date: Wed, 07 Mar 2001 11:40:10 -0500 (EST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139303-2001.03.07-11.01.51--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Now that my T-238 is here, and about to be assembled...

Does anyone have any suggestions for a good case for the board? Ideally,
something with an appropriate cut-out for the LCD, since my skills with a
nibbler tool and file leave something to be desired. :-)

- Rich

--
Catapultam habeo. Nisi pecuniam omnem mihi dabis, ad caput tuum saxum
immane mittam.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

17. [wxsig] Re: Cases for T-238?

From: Russ Hummel <hummel@HSC.VCU.EDU>
Date: Wed, 07 Mar 2001 12:17:39 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139308-2001.03.07-11.34.18--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I bought a Ten Tec case at Dayton last year and everything fits. However a
lot of chassis nibbler and filing were required for the LCD display and the
cut out on the back for all the I/O connections.....
Russ
At 11:40 AM 3/7/01 -0500, you wrote:

>Now that my T-238 is here, and about to be assembled...
>
>Does anyone have any suggestions for a good case for the board? Ideally,
>something with an appropriate cut-out for the LCD, since my skills with a
>nibbler tool and file leave something to be desired. :-)
>
>- Rich
>
>--
>Catapultam habeo. Nisi pecuniam omnem mihi dabis, ad caput tuum saxum
>immane mittam.
>
>
>---
>You are currently subscribed to wxsig as: hummel@hsc.vcu.edu
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

Russ Hummel   CTA2RD
Biomedical Engineer & LAN Manager
Dept of Anesthesiology
Medical College of VA @ VCU
804-828-2212

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

18. [wxsig] Congrats to the TAPR folks

From: mulveyr@iname.com
Date: Thu, 8 Mar 2001 10:26:53 -0500 (EST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139442-2001.03.08-09.42.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I just wanted to say "thanks!" to the original developers and the TAPR folks for the
T-238 kit. I got mine earlier this week, and assembled it last night. Took about
2-1/2 hours, and everything worked fine - no missing parts, good quality components,
great documentation, etc.

   Now I just have to get outdoors and get the T-238 configured. :-)

- Rich

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

19. [wxsig] RE: Congrats to the TAPR folks

From: "William Beals" <will@beals5.com>
Date: Thu, 8 Mar 2001 21:41:37 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139564-2001.03.08-22.56.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

The TAPR team does do a great job, don't they!

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of mulveyr@iname.com
Sent: Thursday, March 08, 2001 8:27 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Congrats to the TAPR folks

I just wanted to say "thanks!" to the original developers and the TAPR folks for the
T-238 kit. I got mine earlier this week, and assembled it last night. Took about
2-1/2 hours, and everything worked fine - no missing parts, good quality components,
great documentation, etc.

Now I just have to get outdoors and get the T-238 configured. :-)

- Rich

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

20. [wxsig] Feeding T-238 data to aprsd

From: Rich Mulvey <mulveyr@iname.com>
Date: Fri, 09 Mar 2001 23:16:21 -0500 (EST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139725-2001.03.09-22.38.07--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi All:

Still playing around with the T-238....

I have a Linux box running aprsd, which is acting as the local APRS igate. aprsd has the capability to accept data over the network and feed it out the TNC, so I wrote a little Perl script to do so.

You can find it at http://mulvey.dyndns.com/aprs/feedt2382aprsd.pl

The script needs to have a couple of variables configured to set up your callsign, a position report, the serial port to use, etc. It should be self-explanatory.

As yes, for those clever people who notice my default serial port name, the T-238 is currently connected to an entirely different Solaris machine. :-)

Please make note of the comment at the beginning of the script, which points to a required Serial Port interface library.

- Rich

--
Catapultam habeo. Nisi pecuniam omnem mihi dabis, ad caput tuum saxum immane mittam.
Where's Rich? http://www.findu.com/cgi-bin/find.cgi?aa2ys

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

21. [wxsig] RE: Congrats to the TAPR folks

From: "Butch Seaman" <butchs@home.com>
Date: Fri, 9 Mar 2001 22:53:41 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139728-2001.03.09-23.14.23--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Can someone help me out so I understand what I need.

I want a weather station so I assume I need the T-238 and the weather station which is the vain and such. Is this correct...?

Thanks

Butch

-----Original Message-----
From: bounce-wxsig-22457@lists.tapr.org
[mailto:bounce-wxsig-22457@lists.tapr.org]On Behalf Of William Beals
Sent: Thursday, March 08, 2001 10:42 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: Congrats to the TAPR folks

Rich:

The TAPR team does do a great job, don't they!

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of mulveyr@iname.com
Sent: Thursday, March 08, 2001 8:27 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Congrats to the TAPR folks

   I just wanted to say "thanks!" to the original developers and the TAPR
folks for the
T-238 kit. I got mine earlier this week, and assembled it last night. Took
about
2-1/2 hours, and everything worked fine - no missing parts, good quality
components,
great documentation, etc.

   Now I just have to get outdoors and get the T-238 configured. :-)

- Rich

You are currently subscribed to wxsig as: butchs@home.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

22. [wxsig] RE: Congrats to the TAPR folks

From: "Russ Chadwick" <crb5@qwest.net>
Date: Fri, 9 Mar 2001 22:07:57 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139729-2001.03.09-23.23.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Butch,

You need to purchase a 1-Wire sensor unit and the T-238. Go to this web
page and go down to the last four links. There you will see links on
information and where to buy. Look at the Dallas site for information on
the rain gauge and humidity sensor.

http://www.users.qwest.net/~crb5/

Russ
kb0tvj

----- Original Message -----
From: Butch Seaman <butchs@home.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Friday, March 09, 2001 9:53 PM
Subject: [wxsig] RE: Congrats to the TAPR folks

> Can someone help me out so I understand what I need.
>
> I want a weather station so I assume I need the T-238 and the weather
> station which is the vain and such. Is this correct...?
>
> Thanks
> Butch

>
>
> -----Original Message-----
> From: bounce-wxsig-22457@lists.tapr.org
> [mailto:bounce-wxsig-22457@lists.tapr.org]On Behalf Of William Beals
> Sent: Thursday, March 08, 2001 10:42 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: Congrats to the TAPR folks
>
>
> Rich:
>
> The TAPR team does do a great job, don't they!
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of mulveyr@iname.com
> Sent: Thursday, March 08, 2001 8:27 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Congrats to the TAPR folks
>
>   I just wanted to say "thanks!" to the original developers and the TAPR
> folks for the
> T-238 kit. I got mine earlier this week, and assembled it last night.
Took
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> components,
> great documentation, etc.
>
>   Now I just have to get outdoors and get the T-238 configured. :-)
>
> - Rich
>
>
> ---
> You are currently subscribed to wxsig as: butchs@home.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

23. [wxsig] RE: Congrats to the TAPR folks

From: "Butch Seaman" <butchs@home.com>
Date: Sat, 10 Mar 2001 08:32:26 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139774-2001.03.10-08.53.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

OK... that' what I thought I would need.. just wanted to make sure.... This
should be a lot of fun....

Thanks
Butch
KC5ONZ

-----Original Message-----
From: bounce-wxsig-22457@lists.tapr.org
[mailto:bounce-wxsig-22457@lists.tapr.org]On Behalf Of Russ Chadwick
Sent: Friday, March 09, 2001 11:08 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: Congrats to the TAPR folks

Butch,

You need to purchase a 1-Wire sensor unit and the T-238. Go to this web

page and go down to the last four links. There you will see links on
information and where to buy. Look at the Dallas site for information on
the rain gauge and humidity sensor.

http://www.users.qwest.net/~crb5/

Russ
kb0tvj

----- Original Message -----
From: Butch Seaman <butchs@home.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Friday, March 09, 2001 9:53 PM
Subject: [wxsig] RE: Congrats to the TAPR folks

> Can someone help me out so I understand what I need.
>
> I want a weather station so I assume I need the T-238 and the weather
> station which is the vain and such. Is this correct...?
>
> Thanks
> Butch
>
>
> -----Original Message-----
> From: bounce-wxsig-22457@lists.tapr.org
> [mailto:bounce-wxsig-22457@lists.tapr.org]On Behalf Of William Beals
> Sent: Thursday, March 08, 2001 10:42 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: Congrats to the TAPR folks
>
>
> Rich:
>
> The TAPR team does do a great job, don't they!
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of mulveyr@iname.com
> Sent: Thursday, March 08, 2001 8:27 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Congrats to the TAPR folks
>
>   I just wanted to say "thanks!" to the original developers and the TAPR
> folks for the
> T-238 kit. I got mine earlier this week, and assembled it last night.
Took
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> 2-1/2 hours, and everything worked fine - no missing parts, good quality
> components,
> great documentation, etc.
>
>   Now I just have to get outdoors and get the T-238 configured. :-)
>
> - Rich
>
>
> ---
> You are currently subscribed to wxsig as: butchs@home.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: butchs@home.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

24. [wxsig] Re: wxsig digest: March 09, 2001

From: Larry Lovell <llovell@home.com>
Date: Sat, 10 Mar 2001 21:32:47 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139926-2001.03.10-21.47.42--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I just finished the T-238 from TAPR it works well, but I needed to order the actual weather station; the wind speed, wind direction and built in thermometer. The Web links show where to go: See http://www.aag.com.mx/weather.html for ordering information. What I found was that you need to set up an account with www.paypal.com in order to send payment. After I had set up the account with paypal.com, I sent an email to aag.com to request pricing. I used the paypal.com account and emailed the $79 +shipping for a total of $104.35. They shipped it the next day and I received it in just three days total. Hope that this helps.

Larry Lovell

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

25. [wxsig] A humidity bug found

From: "William Beals" <will@beals5.com>
Date: Sat, 10 Mar 2001 21:12:04 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-139941-2001.03.10-22.27.03--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

I think I found a humidity bug that could explain a lot. I've been watching the raw data with my 1.12.1 candidate and it seems as though negative temperatures (in degrees C) are not being interpreted correctly by one of my multiplication routines. All my initial testing was done at room temperature.

will

==========
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Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

26. [wxsig] Wind direction Cal may fail in presence of humidity sensor

From: "William Beals" <will@beals5.com>
Date: Sun, 11 Mar 2001 13:26:46 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-140108-2001.03.11-14.41.41--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

While doing some checking, I ran into a conflict between the current wind direction sensor (Dallas Rev 1 and AAG Rev 2) and the humidity sensor. Both have a DS2407 programmable switch and I do not try to distinguish between them. I will need to find a way to do this to ensure that the correct sensor is "discovered". The solution is pretty involved and I did not want to hold up the 1.12.1 release for it.

The symptom is that when you get into wind direction calibration mode, you may get stuck forever, not finding any wind direction sensors. This is because I find the wrong switch and when I turn on the wrong switch no

direction sensor IDs are found. The only way out is to reset the board.

The workaround is to ensure that the humidity sensor is not installed when
you run the wind direction calibration routine. This is not a great
workaround and I'll address it in the next release.

This problem does not occur all of the time. It basically depends on which
sensor happens to get discovered first which is effectively random. I never
saw the bug as my sensors happened to be in the sequence that never showed
the problem. This bug sounds vaguely familiar to one reported a while ago
that I wasn't able to isolate. My apologies to that person, I finally found
it.

will

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Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

27. [wxsig] 1.12.1 Release posted

From: "William Beals" <will@beals5.com>
Date: Sun, 11 Mar 2001 13:26:43 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-140107-2001.03.11-14.41.40--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

The 1.12.1 release is up on the website (http://www.beals5.com/wx). This
release has a lot of changes (which is why I was so annoyed at myself for
having to do it twice!). The major stuff is a revamped sensor calibration
sequence, AAG Rev 3 wind direction sensor support, and a more stable
humidity readings. There is only one known bug and that has to do with
running the wind direction cal in the presence of humidity sensor (details
in a separate email).

Here is the list of highlights. Details on certain items

1) AAG "Rev 3" wind direction sensor now supported.
2) Now show dashes (vs 0) if no humidity sensor installed.
3) Added temporary humidity debug data to error status screen.
4) Metric screen had F for temperature ID even though data was C, fixed
5) Revamped sensor calibration routines.
5a) Only one menu now
5b) User cycled through all sensors and asked to calibrate or not.
5c) ssens routine is now only a supervisory routine, code moved to
    sensor files now (better place for them anyway!)
6) Added humidity raw data to debug string if computed value >100%
7) Fixed bug where base rain count and found flag not reset on cal.
8) Fixed bug where Baud rate was trashed on clock setting.
9) Fixed bug where rain gauge didn't show data after reset.
10) Fixed bug where humidity got gummed up on temperatures less than 0C
11) Added PB7 output to show time in IRQ

SENSOR CALIBRATION REVAMPED:
This is a change that I should have thought of a long time ago. With this
new arrangement, when you select the sensor calibration option you are
presented with each sensor one at a time and asked if you want to
"rediscover" that sensor. The major problem this addresses is adding or
changing sensors without having to do the dreaded wind direction recal.
While simple in theory, it required significant changes to the way in which
I program the data portions of Flash. The end result is more flexible and
will make life easier later.

MAJOR HUMIDITY BUG FIXED:
I think I found the problem with several peoples humidity readings of
greater than 100%. A multiply routine did not handle negative numbers
gracefully and whenever the temperature dropped below 0 degrees C, the

computed value was getting messed up.

HUMIDITY DEBUG DATA:
On the error page I print a 12-character debug string. This string shows
the 16-bit values for the three humidity sensor variables. The first is the
sensor VCC value, second is the sensor output value, and the third is the
sensor temperature. If you ever have readings you feel are not right, these
are the numbers to report. Also, if a computed reading of greater than 100%
occurs, this data is also sent out on the debug extension of the APRS
string. The debug data on the LCD will disappear in a future release, the
APRS debug string will be permanent.

SEVERAL RAIN GAUGE BUGS FIXED:
Back in the 1.9.x releases, I introduced some bugs in the rain gauge code.
These bugs would only have shown up with anyone starting from scratch with a
rain sensor. I never caught this bug, but got two independent reports this
weekend about the problem and got it fixed.

will

==
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Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

28. [wxsig] Call for bugs(!!)

From: "William Beals" <will@beals5.com>
Date: Sun, 11 Mar 2001 13:26:47 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-140109-2001.03.11-14.41.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

While doing this release, I was surprised to find several bugs in my code
that evidently had been around for a long time. If you do find something
strange that seems to be a bug, please let me know. One of the nice thing
about being flash-based is that bugs can get fixed and you can get those
fixes without having to swap parts or anything ugly like that. The
permutations and combinations of sensors, sequencing of sensor IDs and
output modes make it impossible for me to test everything before a release.
I do my best to ensure the basic combinations work, but will have to rely on
bug reports for the rest.

I do keep a running bug list, so even though I may not fix bugs right away,
they are logged and will get fixed eventually.

will

==
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==
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

29. [wxsig] Hold off on downloading 1.12.1!

From: "William Beals" <will@beals5.com>
Date: Sun, 11 Mar 2001 14:09:55 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>

Message-ID: <LYR15067-140119-2001.03.11-15.24.41--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Sorry to plug emails, but you had better hold off on 1.12.1. I did all my
testing on the new wind direction sensor but have introduced a bug in the
old stuff that generates quite a few errors. I will pull the file from the
website just to be sure.

Sorry.

will

==========
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(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

30. [wxsig] 1.12.2 Released

From: "William Beals" <will@beals5.com>
Date: Sun, 11 Mar 2001 14:32:44 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-140121-2001.03.11-15.47.26--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Well, I think that was the shorter releases in history.

1.12.2 fixing the wind direction errors is now up.

will

==========
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(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

31. [wxsig] RE: 1.12.2 Released

From: Guy Story <kc5goi@tapr.org>
Date: Sun, 11 Mar 2001 16:00:05 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-140125-2001.03.11-16.15.48--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

that explains alot of what I saw. I was waiting for the wx to clear up
before I started to trouble shoot what was causing sme weird stuff
suddenly. 1.12.2 is behaving much better and seems to boot up faster. No
problems with any sensors getting found now. 1.12.1 was lossing snesors
and finding them at randome.

Guy

-----Original Message-----
From: William Beals [SMTP:will@beals5.com]
Sent: Sunday, March 11, 2001 3:33 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] 1.12.2 Released

Folks:

Well, I think that was the shorter releases in history.

1.12.2 fixing the wind direction errors is now up.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: kc5goi@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

32. [wxsig] 1-12-2 Installed

From: "Debbie Beckwith" <beckwd@earthlink.net>
Date: Wed, 14 Mar 2001 18:20:29 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-458-2001.03.14-18.41.36--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will, 1-12-2 is installed and running, so you should start seeing the new
telemetry data.

Regards,

Rich - Wn0x

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

33. [wxsig] RE: 1-12-2 Installed

From: "William Beals" <will@beals5.com>
Date: Wed, 14 Mar 2001 18:28:50 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-467-2001.03.14-19.43.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

Cool, I'll be looking. I've been perusing Russes logfiles to see if there
are any debug sentences indicating any humidity errors. So far none. I
know there are bugs out there, I suspect they are just being sneaky for a
bit.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Debbie Beckwith
Sent: Wednesday, March 14, 2001 5:20 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] 1-12-2 Installed

Will, 1-12-2 is installed and running, so you should start seeing the new
telemetry data.

Regards,

Rich - Wn0x

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

34. [wxsig] T-238 added to digi

From: Guy Story <kc5goi@tapr.org>
Date: Wed, 14 Mar 2001 22:05:55 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-541-2001.03.14-22.21.45--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello everyone, I added a T-238 to the W5NGU-3 digipeater tonight. It only has the rain guage installed right now but will have the wind speed, direction and temp added to it by the end of next week. I placed the T-238 in TNC direct mode and so far so good. Will, it is running 1.12.2 right now. It will be saturday before we see our next rain event.

73

Guy Story, KC5GOI

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

35. [wxsig] Two bugs in 1.12.2

From: "William Beals" <will@beals5.com>
Date: Sat, 17 Mar 2001 15:55:58 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-1087-2001.03.17-17.48.09--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

I've been getting a lot of emails this past week regarding some strange things with the 1.12.2 release. Not all of them were on the reflector, so I want to summarize the issues to everyone.

1) Once you program in the humidity sensor, if you remove it, the reset sequence will hang. If a sensor value is programmed in, I try to initialize the sensor on power-up or reset. If I get an error during this initialization, I just try to initialize again. With no sensor installed, I get into an infinite loop trying to initialize the sensor. Complicating things a bit is that right now I do not have a way to erase a sensor from the flash tables, so once programmed, you can never remove the sensor! I'll fix this by doing something similar to the rain gauge, if I do not detect the sensor on power-up, I will ignore it until the next time you reset or cycle power.

2) An item hilighted by the above issue is that I should have a way to remove IDs from the flash tables. If, during the calibration process a particular sensor cannot be found, I will give the option of removing it from the tables.

3) I still have some interaction problems where setting time/date can mess up the Peet format. They share a block of flash memory and I'm likely messing something up. I have not isolated this one yet.

A general warning: It appears we have our first case of someone being able to trash a micro by trying to run MON08 inside a DOS window instead of using native DOS mode. Despite all my messing up, I've never managed to destroy a part, but it does appear to be possible.

will

==========
This message sent using 100% recycled electrons.
(Minimum 30% post-consumer content)
==========
Will Beals (mobile)
15014 East Idaho Place

Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

36. [wxsig] DS1994 Clock

From: Guy Story <kc5goi@tapr.org>
Date: Sun, 18 Mar 2001 08:52:32 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-1196-2001.03.18-09.08.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I ordered 3 of the 1994 clocks for 3 seperate T-238s that we are using in my area. One question while I wait for it and the buttons to hold them to arrive, does it come with the software to set it up or do I have to download it from a location I must be missing? I am going to use the develpoment area on the boards to mount the button holder to.

73

Guy Story, KC5GOI

-----Original Message-----
From: William Beals [SMTP:will@beals5.com]
Sent: Saturday, March 17, 2001 4:56 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Two bugs in 1.12.2

Folks:

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1) Once you program in the humidity sensor, if you remove it, the reset sequence will hang. If a sensor value is programmed in, I try to initialize
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Will Beals (mobile)
15014 East Idaho Place
Aurora, CO 80012
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will@beals5.com

You are currently subscribed to wxsig as: kc5goi@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

37. [wxsig] Re: DS1994 Clock

From: "Mark Phillips" <g7ltt@g7ltt.com>
Date: Sun, 18 Mar 2001 11:21:00 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-1211-2001.03.18-10.37.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The 1-wire software that you should have already downloaded all0ows you to
set the clock.

DO NOT set the bit that disables the updating as you'll then have a clock
that's stuck to whatever time you set it to.

Mark Phillips, G7LTT/KC2ENI
New York, NY - 11103
40' 45.781N 073' 54.472W
http://www.g7ltt.com

----- Original Message -----
From: "Guy Story" <kc5goi@tapr.org>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Sunday, March 18, 2001 9:52 AM
Subject: [wxsig] DS1994 Clock

> I ordered 3 of the 1994 clocks for 3 seperate T-238s that we are using in
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> arrive, does it come with the software to set it up or do I have to
> download it from a location I must be missing? I am going to use the
> develpoment area on the boards to mount the button holder to.
>
> 73
>
> Guy Story, KC5GOI
>
> -----Original Message-----
> From: William Beals [SMTP:will@beals5.com]
> Sent: Saturday, March 17, 2001 4:56 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Two bugs in 1.12.2
>
> Folks:
>
> I've been getting a lot of emails this past week regarding some strange
> things with the 1.12.2 release. Not all of them were on the reflector, so
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> 1) Once you program in the humidity sensor, if you remove it, the reset
> sequence will hang. If a sensor value is programmed in, I try to
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> initialization, I just try to initialize again. With no sensor installed,
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> things a bit is that right now I do not have a way to erase a sensor from
> the flash tables, so once programmed, you can never remove the sensor!
> I'll
> fix this by doing something similar to the rain gauge, if I do not detect
> the sensor on power-up, I will ignore it until the next time you reset or
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>
>
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> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
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>
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> You are currently subscribed to wxsig as: g7ltt@g7ltt.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

38. [wxsig] Possible bug using 1.12.2 with AAG station and rain gauge

From: Guy Story <kc5goi@tapr.org>
Date: Sun, 18 Mar 2001 18:30:48 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-1266-2001.03.18-18.46.50--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I think I found a bug this afternoon at the repeater site when I was
installing the AAG copy of the wx station. We ran the sensor picup
routines and found all the devices, wind speed, direction, temp and rain
gauge. After the restart, wind direciton is not appearing and the error
count does increment up. At first I thought that the AAG station might
have been the problem but when I got the t-238 home and tried it on a T-238
that is still at 1.12.0, not a single problem was found. I double checked
the WX station against another AAG kit and have the same results with
1.12.0 and 1.12.2. 1.12.0 does not seem to loose the sensors for direciton
but 1.12.2 is. Here is a really cute thing and I can not explain it, I
have a Dallas Semi Kit with the rain gauge on my home station running
1.12.2, no serious problems.

Guy Story, KC5OGI

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

39. [wxsig] APRSWXNET info

From: "Russ Chadwick" <crb5@qwest.net>
Date: Mon, 19 Mar 2001 22:10:47 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-1504-2001.03.19-23.26.40--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Information and data for APRSWXNET stations is now on this web page:

http://www.users.qwest.net/~crb5/

There is also information for 1-Wire ? T-238 weather stations.

Russ
kb0tvj

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

40. [wxsig] Re: Possible bug using 1.12.2 with AAG station and rain gauge

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Wed, 21 Mar 2001 07:29:26 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-1894-2001.03.21-07.47.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Guy, This is the same problem I have been having for months, I run a
Dallas system.
1. What is your bus voltage?
        Mine is under 3.5 volts. I now think this is the problem. I suspect the
DS9502 suppression diode part is bad and I'm waiting for a new one.

2. I run an external temperature sensor and the bus voltage is 5v when
it's in by itself. Installing the wx station pulls it down to 3.3 volts

3. For some reason if you have a chip that was calibrated when your bus
was good the addressable switches that makeup the wind direction can
still be read and the chip seems good. However you can't calibrate the
system with low voltage as the switches are not seen. DON'T attempt to
calibrate your chip that seems to work. It will most likely lock up
during the wind direction calibration and it too will no longer work.

I will make a posting when my DS9502 arrives and I can repair my unit.
Bill N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

41. [wxsig] Re: Possible bug using 1.12.2 with AAG station and rain gauge

From: Guy Story <kc5goi@tapr.org>
Date: Wed, 21 Mar 2001 09:08:04 -0600 (CST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-1931-2001.03.21-09.24.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Wed, 21 Mar 2001, Bill Ellis wrote:

> Guy, This is the same problem I have been having for months, I run a
> Dallas system.

Here is the funny thing, I am running 1.12.2R on my home station, it
consists of the Dallas made unit, rain gauge and external temp sensor.
Not a problem. The two units I am having trouble with are recently
obtained AAG units. Using 1.12.0, everything with the AAG is fine and
dandy. The fact that the 1.12.0 code is not giving this problem removes
the possibilty that it is a issue with the AAG wx station.

 > 1. What is your bus voltage?
>   Mine is under 3.5 volts. I now think this is the problem. I suspect the
> DS9502 suppression diode part is bad and I'm waiting for a new one.

5.02 to 4.98 is what I am seeing on the troubled units. I saw a post from
Will that one of the guys near him was able to duplicate the error too.

>
> 2. I run an external temperature sensor and the bus voltage is 5v when
> it's in by itself. Installing the wx station pulls it down to 3.3 volts

My station at the house with the external temp sensor runs 4.98
continuously. It is running 30 to 40 feet of CAT 3 to the temp sensor.

>
> 3. For some reason if you have a chip that was calibrated when your bus

> was good the addressable switches that makeup the wind direction can
> still be read and the chip seems good. However you can't calibrate the
> system with low voltage as the switches are not seen. DON'T attempt to
> calibrate your chip that seems to work. It will most likely lock up
> during the wind direction calibration and it too will no longer work.
>

I have not seen this but will keep it in advisement for future referance.
Thanks.

73,

Guy Story
KC5GOI
kc5goi@tapr.org
http://www.kc5goi.net

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

42. [wxsig] Re: Possible bug using 1.12.2 with AAG station and rain gauge

From: mulveyr@iname.com
Date: Wed, 21 Mar 2001 10:43:02 -0500 (EST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-1939-2001.03.21-10.00.23--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> On Wed, 21 Mar 2001, Bill Ellis wrote:
>
> > Guy, This is the same problem I have been having for months, I run a
> > Dallas system.
>
> Here is the funny thing, I am running 1.12.2R on my home station, it
> consists of the Dallas made unit, rain gauge and external temp sensor.
> Not a problem. The two units I am having trouble with are recently
> obtained AAG units. Using 1.12.0, everything with the AAG is fine and
> dandy. The fact that the 1.12.0 code is not giving this problem removes
> the possibilty that it is a issue with the AAG wx station.
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> > 1. What is your bus voltage?
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> > DS9502 suppression diode part is bad and I'm waiting for a new one.
>
> 5.02 to 4.98 is what I am seeing on the troubled units. I saw a post from
> Will that one of the guys near him was able to duplicate the error too.
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> > 2. I run an external temperature sensor and the bus voltage is 5v when
> > it's in by itself. Installing the wx station pulls it down to 3.3 volts
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> My station at the house with the external temp sensor runs 4.98
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> > 3. For some reason if you have a chip that was calibrated when your bus
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> > system with low voltage as the switches are not seen. DON'T attempt to
> > calibrate your chip that seems to work. It will most likely lock up
> > during the wind direction calibration and it too will no longer work.
> >
>
> I have not seen this but will keep it in advisement for future referance.
> Thanks.

   I too, saw some odd behavior on the T-238 wind direction. I have an AAG unit
purchased back in December. However, my "AAG" unit is covered with "Dal Semi"
stickers, so I assumed that they had just bought up some Dal Semi stuff, and
were reselling it.

   Anyhow, after I installed 1.12.2, the "Wnd" values were just black boxes.
I went through a reinitialization, and then they showed up again. Didn't
think much of it at the time, and it hasn't been an issue, since.

- Rich

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

43. [wxsig] Re: DS1994 Clock

From: Guy Story <kc5goi@tapr.org>
Date: Wed, 21 Mar 2001 20:03:10 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-2061-2001.03.21-20.20.26--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I received my 1994 buttons today. I have a dumb question, do I want this
set to local time or UTC? SOme people may have trouble with UTC but I do
not really want to go to the site every 6 months for day light savings
time. I am pretty lazy.

Guy

-----Original Message-----
From: Mark Phillips [SMTP:g7ltt@g7ltt.com]
Sent: Sunday, March 18, 2001 10:21 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: DS1994 Clock

The 1-wire software that you should have already downloaded all0ows you to
set the clock.

DO NOT set the bit that disables the updating as you'll then have a clock
that's stuck to whatever time you set it to.

Mark Phillips, G7LTT/KC2ENI
New York, NY - 11103
40' 45.781N 073' 54.472W
http://www.g7ltt.com

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From: "Guy Story" <kc5goi@tapr.org>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Sunday, March 18, 2001 9:52 AM
Subject: [wxsig] DS1994 Clock

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> Guy Story, KC5GOI
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> -----Original Message-----
> From: William Beals [SMTP:will@beals5.com]
> Sent: Saturday, March 17, 2001 4:56 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Two bugs in 1.12.2
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> Folks:
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44. [wxsig] Re: DS1994 Clock

From: "Russ Chadwick" <crb5@qwest.net>
Date: Wed, 21 Mar 2001 19:13:27 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-2062-2001.03.21-20.29.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Guy,

Set it to UTC. The T-238 asks you for the local hour to determine the
offset.

Russ
kb0tvj
----- Original Message -----
From: Guy Story <kc5goi@tapr.org>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>

Sent: Wednesday, March 21, 2001 7:03 PM
Subject: [wxsig] Re: DS1994 Clock

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> Mark Phillips, G7LTT/KC2ENI
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> Sent: Sunday, March 18, 2001 9:52 AM
> Subject: [wxsig] DS1994 Clock
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> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] Two bugs in 1.12.2
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> > get into an infinite loop trying to initialize the sensor. Complicating
> > things a bit is that right now I do not have a way to erase a sensor
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> > the flash tables, so once programmed, you can never remove the sensor!
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> > fix this by doing something similar to the rain gauge, if I do not
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> > the sensor on power-up, I will ignore it until the next time you reset
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> > particular sensor cannot be found, I will give the option of removing it
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> > using
> > native DOS mode. Despite all my messing up, I've never managed to
> destroy
> > a
> > part, but it does appear to be possible.
> >
> > will
> >
> > ==
> > This message sent using 100% recycled electrons.
> > (Minimum 30% post-consumer content)
> > ==
> > Will Beals (mobile)
> > 15014 East Idaho Place
> > Aurora, CO 80012
> > 303-755-0293
> > will@beals5.com
> >
> >
> > ---
> > You are currently subscribed to wxsig as: kc5goi@tapr.org
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> >
> >
> > ---
> > You are currently subscribed to wxsig as: g7ltt@g7ltt.com
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
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>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

45. [wxsig] Re: DS1994 Clock

From: Guy Story <kc5goi@tapr.org>
Date: Wed, 21 Mar 2001 22:07:30 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-2073-2001.03.21-22.25.06--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

No problem. One question and I think I know the answer, if the power fials then the kit will loose the UTC offset at this point, right?

Guy

-----Original Message-----
From: Russ Chadwick [SMTP:crb5@qwest.net]
Sent: Wednesday, March 21, 2001 8:13 PM
To: TAPR WX Special Interest Group

Subject: [wxsig] Re: DS1994 Clock

Guy,

Set it to UTC. The T-238 asks you for the local hour to determine the
offset.

Russ
kb0tvj
----- Original Message -----
From: Guy Story <kc5goi@tapr.org>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Wednesday, March 21, 2001 7:03 PM
Subject: [wxsig] Re: DS1994 Clock

> I received my 1994 buttons today. I have a dumb question, do I want this
> set to local time or UTC? SOme people may have trouble with UTC but I do
> not really want to go to the site every 6 months for day light savings
> time. I am pretty lazy.
>
> Guy
>
> -----Original Message-----
> From: Mark Phillips [SMTP:g7ltt@g7ltt.com]
> Sent: Sunday, March 18, 2001 10:21 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: DS1994 Clock
>
> The 1-wire software that you should have already downloaded all0ows you to
> set the clock.
>
> DO NOT set the bit that disables the updating as you'll then have a clock
> that's stuck to whatever time you set it to.
>
>
> Mark Phillips, G7LTT/KC2ENI
> New York, NY - 11103
> 40' 45.781N 073' 54.472W
> http://www.g7ltt.com
>
> ----- Original Message -----
> From: "Guy Story" <kc5goi@tapr.org>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Sunday, March 18, 2001 9:52 AM
> Subject: [wxsig] DS1994 Clock
>
>
> > I ordered 3 of the 1994 clocks for 3 seperate T-238s that we are using
in
> > my area. One question while I wait for it and the buttons to hold them
> to
> > arrive, does it come with the software to set it up or do I have to
> > download it from a location I must be missing? I am going to use the
> > develpoment area on the boards to mount the button holder to.
> >
> > 73
> >
> > Guy Story, KC5GOI
> >
> > -----Original Message-----
> > From: William Beals [SMTP:will@beals5.com]
> > Sent: Saturday, March 17, 2001 4:56 PM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] Two bugs in 1.12.2
> >
> > Folks:
> >
> > I've been getting a lot of emails this past week regarding some strange
> > things with the 1.12.2 release. Not all of them were on the reflector,
> so
> > I
> > want to summarize the issues to everyone.
> >
> > 1) Once you program in the humidity sensor, if you remove it, the reset
> > sequence will hang. If a sensor value is programmed in, I try to
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> > the sensor on power-up or reset. If I get an error during this
> > initialization, I just try to initialize again. With no sensor

> installed,
> > I
> > get into an infinite loop trying to initialize the sensor. Complicating
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> > the flash tables, so once programmed, you can never remove the sensor!
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> > particular sensor cannot be found, I will give the option of removing it
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> > 3) I still have some interaction problems where setting time/date can
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> > native DOS mode. Despite all my messing up, I've never managed to
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> > part, but it does appear to be possible.
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> > will
> >
> > ==
> > This message sent using 100% recycled electrons.
> > (Minimum 30% post-consumer content)
> > ==
> > Will Beals (mobile)
> > 15014 East Idaho Place
> > Aurora, CO 80012
> > 303-755-0293
> > will@beals5.com
> >
> >
> > ---
> > You are currently subscribed to wxsig as: kc5goi@tapr.org
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
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> > ---
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You are currently subscribed to wxsig as: kc5goi@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org

To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

46. [wxsig] Wind direction errors

From: "William Beals" <will@beals5.com>
Date: Wed, 21 Mar 2001 21:32:07 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-2076-2001.03.21-22.46.54--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Russ is able to see the wind direction problem on one of his sensors. I am off on an international trip all next week, so I'll have plenty of time to stare at my code. Barring that I should be able to get hold of one of the sensors and see what is going on.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

47. [wxsig] Re: DS1994 Clock

From: "Russ Chadwick" <crb5@qwest.net>
Date: Wed, 21 Mar 2001 21:33:10 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-2081-2001.03.21-22.49.08--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

No way, this is quality stuff, man. The T-238 remembers the offset and will return to the correct time and local offset if power is interrupted. At Daylight Savings Time changeovers, you have to reset the local time if you want the local time display to be correct. However, that's really not necessary since the time in the packet is UTC.

Russ
kb0tvj

----- Original Message -----
From: Guy Story <kc5goi@tapr.org>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Wednesday, March 21, 2001 9:07 PM
Subject: [wxsig] Re: DS1994 Clock

> No problem. One question and I think I know the answer, if the power fials
> then the kit will loose the UTC offset at this point, right?
>
> Guy
>
> -----Original Message-----
> From: Russ Chadwick [SMTP:crb5@qwest.net]
> Sent: Wednesday, March 21, 2001 8:13 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: DS1994 Clock
>
> Guy,
>
> Set it to UTC. The T-238 asks you for the local hour to determine the
> offset.
>
> Russ
> kb0tvj
> ----- Original Message -----
> From: Guy Story <kc5goi@tapr.org>
> To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
> Sent: Wednesday, March 21, 2001 7:03 PM
> Subject: [wxsig] Re: DS1994 Clock

> > I received my 1994 buttons today. I have a dumb question, do I want this
> > set to local time or UTC? SOme people may have trouble with UTC but I do
> > not really want to go to the site every 6 months for day light savings
> > time. I am pretty lazy.
> >
> > Guy
> >
> > -----Original Message-----
> > From: Mark Phillips [SMTP:g7ltt@g7ltt.com]
> > Sent: Sunday, March 18, 2001 10:21 AM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] Re: DS1994 Clock
> >
> > The 1-wire software that you should have already downloaded all0ows you to
> > set the clock.
> >
> > DO NOT set the bit that disables the updating as you'll then have a clock
> > that's stuck to whatever time you set it to.
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> > Mark Phillips, G7LTT/KC2ENI
> > New York, NY - 11103
> > 40' 45.781N 073' 54.472W
> > http://www.g7ltt.com
> >
> > ----- Original Message -----
> > From: "Guy Story" <kc5goi@tapr.org>
> > To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> > Sent: Sunday, March 18, 2001 9:52 AM
> > Subject: [wxsig] DS1994 Clock
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> > > I ordered 3 of the 1994 clocks for 3 seperate T-238s that we are using
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> > > my area. One question while I wait for it and the buttons to hold them
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> > > develpoment area on the boards to mount the button holder to.
> > >
> > > 73
> > >
> > > Guy Story, KC5GOI
> > >
> > > -----Original Message-----
> > > From: William Beals [SMTP:will@beals5.com]
> > > Sent: Saturday, March 17, 2001 4:56 PM
> > > To: TAPR WX Special Interest Group
> > > Subject: [wxsig] Two bugs in 1.12.2
> > >
> > > Folks:
> > >
> > > I've been getting a lot of emails this past week regarding some strange
> > > things with the 1.12.2 release. Not all of them were on the reflector,
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> > > This message sent using 100% recycled electrons.
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> > > ==
> > > Will Beals (mobile)
> > > 15014 East Idaho Place
> > > Aurora, CO 80012
> > > 303-755-0293
> > > will@beals5.com
> > >
> > >
> > > ---
> > > You are currently subscribed to wxsig as: kc5goi@tapr.org
> > > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
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>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

48. [wxsig] Re: DS1994 Clock

From: "William Beals" <will@beals5.com>
Date: Wed, 21 Mar 2001 21:35:20 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-2082-2001.03.21-22.50.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Guy:

Actually not. I store the offset in flash, so it will be remembered. All I need you to do is run the time setting routine once after installing the DS1994 so that I can store that variable in flash. Only downside is that I do not do anything for DST, so you need to update it twice a year--or ignore it like I do!

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Guy Story
Sent: Wednesday, March 21, 2001 9:08 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: DS1994 Clock

No problem. One question and I think I know the answer, if the power fials then the kit will loose the UTC offset at this point, right?

Guy

-----Original Message-----
From: Russ Chadwick [SMTP:crb5@qwest.net]
Sent: Wednesday, March 21, 2001 8:13 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: DS1994 Clock

Guy,

Set it to UTC. The T-238 asks you for the local hour to determine the offset.

Russ
kb0tvj
----- Original Message -----
From: Guy Story <kc5goi@tapr.org>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Wednesday, March 21, 2001 7:03 PM
Subject: [wxsig] Re: DS1994 Clock

> I received my 1994 buttons today. I have a dumb question, do I want this
> set to local time or UTC? SOme people may have trouble with UTC but I do
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> time. I am pretty lazy.
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> -----Original Message-----
> From: Mark Phillips [SMTP:g7ltt@g7ltt.com]
> Sent: Sunday, March 18, 2001 10:21 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: DS1994 Clock
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> Mark Phillips, G7LTT/KC2ENI
> New York, NY - 11103
> 40' 45.781N 073' 54.472W

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> ----- Original Message -----
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> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Sunday, March 18, 2001 9:52 AM
> Subject: [wxsig] DS1994 Clock
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> > I ordered 3 of the 1994 clocks for 3 seperate T-238s that we are using
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> > Guy Story, KC5GOI
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> > From: William Beals [SMTP:will@beals5.com]
> > Sent: Saturday, March 17, 2001 4:56 PM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] Two bugs in 1.12.2
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> > will
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> > ==
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> > ==
> > Will Beals (mobile)

> > 15014 East Idaho Place
> > Aurora, CO 80012
> > 303-755-0293
> > will@beals5.com
> >
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> > ---
> > You are currently subscribed to wxsig as: kc5goi@tapr.org
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You are currently subscribed to wxsig as: kc5goi@tapr.org
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You are currently subscribed to wxsig as: will@beals5.com
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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

49. [wxsig] Change of e-mail address to <wa4mtg@msn.com>

From: "JOHN MCLEMORE" <wa4mtg@msn.com>
Date: Thu, 22 Mar 2001 21:22:16 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-2424-2001.03.22-21.39.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi! I am writing to let you know that I have a new e-mail address: <wa4mtg@msn.com>. You can use it to send me e-mail and to send me instant messages using MSN Messenger or MSN Explorer's Online Buddies. <br clear=all><hr>Get your FREE download of MSN Explorer at http://explorer.msn.com
</p>

50. [wxsig] LOS

From: "William Beals" <will@beals5.com>
Date: Fri, 23 Mar 2001 19:31:28 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-2569-2001.03.23-20.46.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

I am off on a week-long business trip next week. As such, I'll be off the
SIG for a week. Hopefully I'll be back online by next Saturday. Off to
Europe in the middle of all the virus scares!

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========

Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

51. [wxsig] Re: DS1994 Clock

From: "William Beals" <will@beals5.com>
Date: Wed, 21 Mar 2001 21:35:20 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-2585-2001.03.23-23.40.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Guy:

Actually not. I store the offset in flash, so it will be remembered. All I need you to do is run the time setting routine once after installing the DS1994 so that I can store that variable in flash. Only downside is that I do not do anything for DST, so you need to update it twice a year--or ignore it like I do!

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Guy Story
Sent: Wednesday, March 21, 2001 9:08 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: DS1994 Clock

No problem. One question and I think I know the answer, if the power fials then the kit will loose the UTC offset at this point, right?

Guy

-----Original Message-----
From: Russ Chadwick [SMTP:crb5@qwest.net]
Sent: Wednesday, March 21, 2001 8:13 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: DS1994 Clock

Guy,

Set it to UTC. The T-238 asks you for the local hour to determine the offset.

Russ
kb0tvj
----- Original Message -----
From: Guy Story <kc5goi@tapr.org>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Wednesday, March 21, 2001 7:03 PM
Subject: [wxsig] Re: DS1994 Clock

> I received my 1994 buttons today. I have a dumb question, do I want this
> set to local time or UTC? SOme people may have trouble with UTC but I do
> not really want to go to the site every 6 months for day light savings
> time. I am pretty lazy.
>
> Guy
>
> -----Original Message-----
> From: Mark Phillips [SMTP:g7ltt@g7ltt.com]
> Sent: Sunday, March 18, 2001 10:21 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: DS1994 Clock
>
> The 1-wire software that you should have already downloaded all0ows you to
> set the clock.
>
> DO NOT set the bit that disables the updating as you'll then have a clock
> that's stuck to whatever time you set it to.

>
>
> Mark Phillips, G7LTT/KC2ENI
> New York, NY - 11103
> 40' 45.781N 073' 54.472W
> http://www.g7ltt.com
>
> ----- Original Message -----
> From: "Guy Story" <kc5goi@tapr.org>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Sunday, March 18, 2001 9:52 AM
> Subject: [wxsig] DS1994 Clock
>
>
> > I ordered 3 of the 1994 clocks for 3 seperate T-238s that we are using
in
> > my area. One question while I wait for it and the buttons to hold them
> to
> > arrive, does it come with the software to set it up or do I have to
> > download it from a location I must be missing? I am going to use the
> > develpoment area on the boards to mount the button holder to.
> >
> > 73
> >
> > Guy Story, KC5GOI
> >
> > -----Original Message-----
> > From: William Beals [SMTP:will@beals5.com]
> > Sent: Saturday, March 17, 2001 4:56 PM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] Two bugs in 1.12.2
> >
> > Folks:
> >
> > I've been getting a lot of emails this past week regarding some strange
> > things with the 1.12.2 release. Not all of them were on the reflector,
> so
> > I
> > want to summarize the issues to everyone.
> >
> > 1) Once you program in the humidity sensor, if you remove it, the reset
> > sequence will hang. If a sensor value is programmed in, I try to
> > initialize
> > the sensor on power-up or reset. If I get an error during this
> > initialization, I just try to initialize again. With no sensor
> installed,
> > I
> > get into an infinite loop trying to initialize the sensor. Complicating
> > things a bit is that right now I do not have a way to erase a sensor
from
> > the flash tables, so once programmed, you can never remove the sensor!
> > I'll
> > fix this by doing something similar to the rain gauge, if I do not
detect
> > the sensor on power-up, I will ignore it until the next time you reset
or
> > cycle power.
> >
> > 2) An item hilighted by the above issue is that I should have a way to
> > remove IDs from the flash tables. If, during the calibration process a
> > particular sensor cannot be found, I will give the option of removing it
> > from the tables.
> >
> > 3) I still have some interaction problems where setting time/date can
> mess
> > up the Peet format. They share a block of flash memory and I'm likely
> > messing something up. I have not isolated this one yet.
> >
> > A general warning: It appears we have our first case of someone being
> able
> > to trash a micro by trying to run MON08 inside a DOS window instead of
> > using
> > native DOS mode. Despite all my messing up, I've never managed to
> destroy
> > a
> > part, but it does appear to be possible.
> >
> > will
> >

> > ==
> > This message sent using 100% recycled electrons.
> > (Minimum 30% post-consumer content)
> > ==
> > Will Beals (mobile)
> > 15014 East Idaho Place
> > Aurora, CO 80012
> > 303-755-0293
> > will@beals5.com
> >
> >
> > ---
> > You are currently subscribed to wxsig as: kc5goi@tapr.org
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> >
> >
> > ---
> > You are currently subscribed to wxsig as: g7ltt@g7ltt.com
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> >
>
>
> ---
> You are currently subscribed to wxsig as: kc5goi@tapr.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: kc5goi@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: ngpennini@arnet.com.ar
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

52. [wxsig] Re: 1.12.2 Released

From: John Vause <jdv@iglou.com>
Date: Sat, 24 Mar 2001 11:33:12 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-2640-2001.03.24-10.49.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will, is it possible to select the temperature sensor that is
part of the humidity sensor rather than the DS1820?

Is this something you might want to code
into a future revision of the firmware?

William Beals wrote:
>
> Folks:
>
> Well, I think that was the shorter releases in history.
>
> 1.12.2 fixing the wind direction errors is now up.
>
> will
>

> ==========
> This message sent using 100% recycled electrons.
> (minimum 30% post-consumer)
> ==========
> Will Beals
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
> ---
> You are currently subscribed to wxsig as: jdv@iglou.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

--
* John Vause KF4ERV jdv@iglou.com   *
--

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

53. [wxsig] Re: 1.12.2 Released

From: "William Beals" <will@beals5.com>
Date: Sat, 24 Mar 2001 11:47:43 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-2645-2001.03.24-13.02.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

John:

Right now it is not possible to get the two temperature sensors mixed up.
The one that is used for the humidity sensor is a different sensor with a
different ID. I had not considered making it the primary temperature sensor
mainly because I figured folk might want to put that sensor some place
better shielded from the elements so it may not report accurate ambient
temperature readings.

Is this something you'd like to see as an option?

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of John Vause
Sent: Saturday, March 24, 2001 9:33 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 1.12.2 Released

Will, is it possible to select the temperature sensor that is
part of the humidity sensor rather than the DS1820?

Is this something you might want to code
into a future revision of the firmware?

William Beals wrote:
>
> Folks:
>
> Well, I think that was the shorter releases in history.
>
> 1.12.2 fixing the wind direction errors is now up.
>
> will
>
> ==========
> This message sent using 100% recycled electrons.
> (minimum 30% post-consumer)
> ==========
> Will Beals
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
> ---
> You are currently subscribed to wxsig as: jdv@iglou.com

> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

--
* John Vause KF4ERV jdv@iglou.com   *
--

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

54. [wxsig] Re: 1.12.2 Released

From: John Vause <jdv@iglou.com>
Date: Sat, 24 Mar 2001 16:37:27 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-2654-2001.03.24-15.53.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will, Since my T238 was down (back up now thanks to N7HPR) I was using
Arnie Henriksen's Wserver software (http://weather.henriksens.net)and
His software will allow access to the temp sensor in the DS2438.
I've been comparing the sensor temps from both the ds1820 in the wind
sensor head vs. the ds2438 humidity sensor with wx data from Bowman
Field (small airport approx. 2 miles from QTH).
The temps from the DS2438 are closer to the temps coming from Bowman
Field than those of the DS1820.

I've got my humidity sensor mounted in a vented rj45 coupler
and mounted out of the sun so it is not affected by the sun whereas
the DS1820 is mounted in the wind sensor head and is affected.

I did notice that the DS2438 temps tended to "stairstep" on the graphs
where the DS1820 temp showed finer resolution.

I changed your tempr.asm code to allow picking between the DS1820 and
the DS2438 and recompiled (changed one of the temp sensor family ids
to 26 - humidity sensor family). I can select the humidity sensor for
temperature but the temp readouts are --- F L --- H ---.
I was hoping the DS2438 handled temperature sensing the same as the
DS1820 and so it would be a minor code hack but evidently not.

> Is this something you'd like to see as an option?

It might be useful. :-)

73

William Beals wrote:
>
> John:
>
> Right now it is not possible to get the two temperature sensors mixed up.
> The one that is used for the humidity sensor is a different sensor with a
> different ID. I had not considered making it the primary temperature sensor
> mainly because I figured folk might want to put that sensor some place
> better shielded from the elements so it may not report accurate ambient
> temperature readings.
>
> Is this something you'd like to see as an option?
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of John Vause
> Sent: Saturday, March 24, 2001 9:33 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: 1.12.2 Released
>
> Will, is it possible to select the temperature sensor that is
> part of the humidity sensor rather than the DS1820?
>
> Is this something you might want to code
> into a future revision of the firmware?
>

```
--
* John Vause  KF4ERV  jdv@iglou.com                *
--

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

55. [wxsig] Re: 1.12.2 Released

```
From: "Brent L. Shaw" <shaw@fsl.noaa.gov>
Date: Mon, 26 Mar 2001 07:43:42 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-2898-2001.03.26-09.02.42--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

I think having the option to use the ds2438 humidity sensor as the
primary temperature sensor is an option I would like to see, since I may
mount the that sensor in a shelter 2m off the ground where temperature
is actually supposed to be measured.

Brent

William Beals wrote:
>
> John:
>
> Right now it is not possible to get the two temperature sensors mixed up.
> The one that is used for the humidity sensor is a different sensor with a
> different ID. I had not considered making it the primary temperature sensor
> mainly because I figured folk might want to put that sensor some place
> better shielded from the elements so it may not report accurate ambient
> temperature readings.
>
> Is this something you'd like to see as an option?
>
L@lists.tapr.org

```
--
*********************************************************************
* Brent L. Shaw               Title  : Research Associate       *
* NOAA/OAR/FSL/FRD  R/FS1     Affil. : CIRA/CSU                 *
* 325 Broadway                Phone  : (303) 497-6100           *
* Boulder, CO  80305-3328     E-Mail : shaw@fsl.noaa.gov        *
* http://laps.fsl.noaa.gov    Room   : DSRC - 2B511              *
*********************************************************************

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

56. [wxsig] AOS

```
From: "William Beals" <will@beals5.com>
Date: Sat, 31 Mar 2001 17:46:59 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4042-2001.03.31-19.04.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Folks:

Back in the good ol' USA. I got quite a bit of work done on the WX code
while on the trip. (8&10 hour trans-Atlantic flights provide plenty of time
as long as the batteries hold out) I am pretty sure I isolated the problem
with the wind direction. Turns out that when I did the swizzling for the
AAG code I messed up the way the flash gets erased and re-written. I was
not erasing it first! I tested with the same sensor or already erased
flash, so did not notice a problem. As I seem to remember, those of you
with problems were swapping sensors for some reason. I have this fix and
several other bug fixes coded up and will be verifying them over the next
week or so before releasing them to the website.

will

```
================================================
This message sent using 100% recycled electrons.
(Minimum 30% post-consumer content)
================================================
Will Beals (mobile)
15014 East Idaho Place
```

Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

April 2001

Original source file: wxsig.0104
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0104

1. [wxsig] Re: Possible bug using 1.12.2 with AAG station and rain gauge

From: John Vause <jdv@iglou.com>
Date: Sun, 01 Apr 2001 10:07:42 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4147-2001.04.01-09.24.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Anyone else tried to adjust their local time on the T238 and
now showing black boxes for wind direction. I did and
I am. :-(

I'm running ver.1.12.2

Everything was working fine until I changed the local clock setting for
DST.

73

mulveyr@iname.com wrote:
>
>>SNIP<<

>   I too, saw some odd behavior on the T-238 wind direction. I have an AAG unit
> purchased back in December. However, my "AAG" unit is covered with "Dal Semi"
> stickers, so I assumed that they had just bought up some Dal Semi stuff, and
> were reselling it.
>
>   Anyhow, after I installed 1.12.2, the "Wnd" values were just black boxes.
> I went through a reinitialization, and then they showed up again. Didn't
> think much of it at the time, and it hasn't been an issue, since.
>
> - Rich
>

--
* John Vause KF4ERV jdv@iglou.com   *
--

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Re: Wx station and KPC-3

From: calfano <calfano3@optonline.net>
Date: Sun, 01 Apr 2001 12:14:58 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4176-2001.04.01-11.31.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill,

        I used your old post to set up my wex station at my Rockaway site. I
have not been able to transmit any data out of buffers 2 and 4. I may
have missed something. Is it possible to send me a printout of your
configuration so I can go line by line...

73
Charlie
WA2GUG

Bill Ellis wrote:
>
> Russ,
> Set the T238 for TNC LTP with a baud of 9600
> Try the following as it works well with my KPC3:
> ABAUD 9600
> as long as its the same as the T238 any baud from 2400-9600 is good I
> have tested as them.
> GPSHEAD 2 _
> GPSHEAD 4 _
> Leave 1 & 3 blank
> These are the headers from the T238 in the TNC LTP mode.
> @ is used if you enable the T238 "position Header" Don't enable the T238

> "position header" as you can send the same info but less often (better)
> with a KPC3 as follows:
>
> LT 1 !3013.60NN09811.75W_PHG7238/A=001470/EMAIL N5ZTW@arrl.net
> LT 3 !3013.60NN09811.75W_PHG7238/A=001470/EMAIL N5ZTW@arrl.net
> Use your lat ang long numbers. PHG codes can be found in the APRS spec
> that can be downloaded from the tapr site
> http://www.tapr.org/tapr/html/Faprswg.html
> A= is altitude mine is 1470' above sea level. put your own comment after
> the /
>
> Leave LT 2 & 4 blank the wx info from the T238 will fill in these two
> buffers as specified by the GPSHEAD 2, 4 statments
>
> BLT 1 EVERY 00:31:00
> This is your position packet from LT 1, Set this for a longer delay as
> not to clog up the band with your fixed position every 5 minutes or so.
> BLT 2 EVERY 00:04:45
> This is your wx data from the T238 I set mine just under the 5 minute
> mark so that a packet is not missed thus sending 10 minute old data.
> BLT 3 EVERY 00:58:00
> Again position
> BLT 4 EVERY 00:04:50
> wx again for a second chance
>
> LTP 1 APRS VIA KB5VOC-2,N5ZTW,WB5ABC,WIDE
> Position data, Pick a known good digi path, try to find one that has an
> Igate if possible
> LTP 2 APRS VIA KB5VOC-2,N5ZTW,WB5ABC,WIDE
> same path but for wx data now and more often.
> LTP 3 APRS VIA N1ABC,K2DEF-1,W3GHI,WIDE
> try to find a second good path for your position report
> LTP 4 APRS VIA N1ABC,K2DEF-1,W3GHI,WIDE
> same second path but for wx this time
>
> remember to set MYCALL to your call
> XMITOK on
> TXDELAY 35
> RETRY 15
> DIGIPEAT on
> I have mine on as I'm in a good location and also digi other's reports
> AX25L2V2 on
>
> Remember the following few things because they bit me and caused a few
> hours of frustration: 1. If you use one baud rate with your terminal
> program to setup the KPC3 you must change your ABAUD back to the same
> baud as the T238 BUT the baud will not change UNTIL you
> A, type RESET <return> or
> B, power cycle the KPC3.
> This allows you to change the abaud at any time during your setup but
> keep the existing baud rate ALSO remember to set the following very
> last:
> INTERFACE GPS
> This puts the KPC3 in the "GPS" mode Now I know the T238 is not a GPS
> but it spits out data in the same format so the KPC3 won't complain and
> the KPC3 does not have a "T238" interface mode.
>
> interface will be "terminal" during set-up
>
> 2. The manual for the KPC3+ says to issue three <Ctrl> <C>'s to reset
> the GPS interface mode back to terminal. I found that you must have a
> cap C not a lowercase c and for some reason "Caps Lock" won't work for
> this! So if you have to go back into the KPC3 and re-configure, connect
> to your computer, run your terminal program at the SAME baud as the T238
> and press and hold <Ctrl> <Shift> and tap <c> three times. This will put
> the KPC3 back in the terminal INTERFACE mode.
>
> Hope this helps
> Bill Ellis N5ZTW deep in the heart of Texas
>
> ---
> You are currently subscribed to wxsig as: wa2gug@arrl.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
[Attachment: calfano3.vcf; text/x-vcard; 156 bytes]

3. [wxsig] Re: Possible bug using 1.12.2 with AAG station and rain gauge

From: John Vause <jdv@iglou.com>
Date: Sun, 01 Apr 2001 15:28:48 -0400

To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4204-2001.04.01-14.45.15--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Well, I found a solution to my problem.
There may be a problem with the routines for setting the
local time. When I did this my UART/Display settings were corrupted.

I had the settings set to TNC-LTP, 4800 baud and character
wind direction. After setting the local time, I found the settings
had changed to Peet and 2400 baud. I set everything back the way I
wanted it and the "black boxes" in the WND field went away.

Hope this helps somebody else.

73

John Vause wrote:
>
> Anyone else tried to adjust their local time on the T238 and
> now showing black boxes for wind direction. I did and
> I am. :-(
>
> I'm running ver.1.12.2
>
> Everything was working fine until I changed the local clock setting for
> DST.
>
> 73
>
> >>SNIP<<
> >   Anyhow, after I installed 1.12.2, the "Wnd" values were just black boxes.
> > I went through a reinitialization, and then they showed up again. Didn't
> > think much of it at the time, and it hasn't been an issue, since.
> >
> > - Rich
> >
>

--
* John Vause KF4ERV jdv@iglou.com   *
--

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] Re: 1.12.2 Released

From: "William Beals" <will@beals5.com>
Date: Sun, 1 Apr 2001 05:20:00 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4255-2001.04.01-18.37.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

John:

(I may have replied earlier, catching up after being gone...)

I will add the ability to select the humidity sensor for the main
temperature sensing. I have about half of the code support in now. As you
found out, there is a big difference in the way the temperature information
is gathered between the DS18x20 and DS2450.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of John Vause
Sent: Saturday, March 24, 2001 2:37 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 1.12.2 Released

Will, Since my T238 was down (back up now thanks to N7HPR) I was using
Arnie Henriksen's Wserver software (http://weather.henriksens.net)and
His software will allow access to the temp sensor in the DS2438.
I've been comparing the sensor temps from both the ds1820 in the wind
sensor head vs. the ds2438 humidity sensor with wx data from Bowman
Field (small airport approx. 2 miles from QTH).

The temps from the DS2438 are closer to the temps coming from Bowman
Field than those of the DS1820.

I've got my humidity sensor mounted in a vented rj45 coupler
and mounted out of the sun so it is not affected by the sun whereas
the DS1820 is mounted in the wind sensor head and is affected.

I did notice that the DS2438 temps tended to "stairstep" on the graphs
where the DS1820 temp showed finer resolution.

I changed your tempr.asm code to allow picking between the DS1820 and
the DS2438 and recompiled (changed one of the temp sensor family ids
to 26 - humidity sensor family). I can select the humidity sensor for
temperature but the temp readouts are --- F L --- H ---.
I was hoping the DS2438 handled temperature sensing the same as the
DS1820 and so it would be a minor code hack but evidently not.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] Re: Possible bug using 1.12.2 with AAG station and rain gauge

From: "William Beals" <will@beals5.com>
Date: Sun, 1 Apr 2001 05:26:27 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4256-2001.04.01-18.43.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

This is another manifestation of a problem I introduced in 1.12.2 where
setting the time messed up UART baud rates and such. I have the fix and
just need to do some verification before releasing it, sorry.

The best way to avoid this for now is to go back to 1.12.0 (or earlier if
you have it) until I can get the next release out.

As part of the request to be able to run calibrations on individual sensors
(rather than being forced to do them all), I managed to mess up two critical
flash programming routines, one for the user settings, and one for the wind
direction IDs.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of John Vause
Sent: Sunday, April 01, 2001 1:29 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Possible bug using 1.12.2 with AAG station and rain
gauge

Well, I found a solution to my problem.
There may be a problem with the routines for setting the
local time. When I did this my UART/Display settings were corrupted.

I had the settings set to TNC-LTP, 4800 baud and character
wind direction. After setting the local time, I found the settings
had changed to Peet and 2400 baud. I set everything back the way I
wanted it and the "black boxes" in the WND field went away.

Hope this helps somebody else.

73

John Vause wrote:
>
> Anyone else tried to adjust their local time on the T238 and
> now showing black boxes for wind direction. I did and
> I am. :-(
>
> I'm running ver.1.12.2
>
> Everything was working fine until I changed the local clock setting for
> DST.
>

> 73
>
> >>SNIP<<
> >   Anyhow, after I installed 1.12.2, the "Wnd" values were just black
boxes.
> > I went through a reinitialization, and then they showed up again.
Didn't
> > think much of it at the time, and it hasn't been an issue, since.
> >
> > - Rich
> >
>

--
* John Vause KF4ERV jdv@iglou.com   *
--

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] Re: Possible bug using 1.12.2 with AAG station and rain gauge

From: Guy Story <kc5goi@tapr.org>
Date: Sun, 1 Apr 2001 21:22:19 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4289-2001.04.01-21.39.21--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

John, I ran into that a week ago. I had to reload the firmware and it was fixed. Actually I downgraded
 to 1.12.0 then went back to 1.12.2.

Guy

-----Original Message-----
From: John Vause [SMTP:jdv@iglou.com]
Sent: Sunday, April 01, 2001 9:08 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Possible bug using 1.12.2 with AAG station and rain gauge

Anyone else tried to adjust their local time on the T238 and
now showing black boxes for wind direction. I did and
I am. :-(

I'm running ver.1.12.2

Everything was working fine until I changed the local clock setting for
DST.

73

mulveyr@iname.com wrote:
>
>>SNIP<<

>   I too, saw some odd behavior on the T-238 wind direction. I have an AAG unit
> purchased back in December. However, my "AAG" unit is covered with "Dal Semi"
> stickers, so I assumed that they had just bought up some Dal Semi stuff, and
> were reselling it.
>
>   Anyhow, after I installed 1.12.2, the "Wnd" values were just black boxes.
> I went through a reinitialization, and then they showed up again. Didn't
> think much of it at the time, and it hasn't been an issue, since.
>
> - Rich
>

--
* John Vause KF4ERV jdv@iglou.com   *
--

You are currently subscribed to wxsig as: kc5goi@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] Digipeater/WX station not getting decoded on findu

From: Guy Story <kc5goi@tapr.org>
Date: Sun, 1 Apr 2001 22:54:39 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4310-2001.04.01-23.11.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello guys, wanted to see if anyone has run into an issue with findu not displaying wx info from a digi that has the T-238 on the db25 of a KPC3. W5NGU-3 is the one in quesiton. She has a T-238 tied to the J5 connector and has not troubles with this setup as far as direct communications are concerned. Yes I am guilty of running 1.12.2, I forgot to take her back to 1.12.0 before I installed her today. I plan a trip to the site when Will releases the next version. Here is what I am seeing, WinAPRS is decoding the data and displaying it just like any other wx station. My D7A is not decoding the data either but does acknoledge that a WX station is attached. All relevant fields are displaying 0 on the ht. Findu does display w5ngu-3 at the correct lat and long. I have noticed that findu may say it has been over and hour since it was last heard at this point. That is not a issue to me since her ltp that sends the lat/long is set to 45 minutes. Very easy to miss a beacon in the DFW area. The wx though sends evrry 5 minutes. WinAPRS backs this up. One other question, Will, can the feature to change the icon on the wx station be included? Right now it sends SYMBD, my digi is wide enabled and the green star with the N in the center is more accurate than the empty green star. Maybe it could be put in the position field since the N is an overlay of the primary symbol?

Guy

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] Re: Digipeater/WX station not getting decoded on findu

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sun, 1 Apr 2001 22:06:26 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4311-2001.04.01-23.22.55--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Guy,

W5NGU-3 has been sending "---" for the wind direction. Findu.com will ignore any such packet. We didn't realize that the proper symbol for no data should be "..." and Will is going to make this change on the next release. One of my stations is doing the same thing.

Russ KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: Guy Story <kc5goi@tapr.org>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Sunday, April 01, 2001 9:54 PM
Subject: [wxsig] Digipeater/WX station not getting decoded on findu

> Hello guys, wanted to see if anyone has run into an issue with findu not
> displaying wx info from a digi that has the T-238 on the db25 of a KPC3.
> W5NGU-3 is the one in quesiton. She has a T-238 tied to the J5 connector
> and has not troubles with this setup as far as direct communications are
> concerned. Yes I am guilty of running 1.12.2, I forgot to take her back
to
> 1.12.0 before I installed her today. I plan a trip to the site when Will
> releases the next version. Here is what I am seeing, WinAPRS is decoding
> the data and displaying it just like any other wx station. My D7A is not
> decoding the data either but does acknoledge that a WX station is
attached.
> All relevant fields are displaying 0 on the ht. Findu does display
> w5ngu-3 at the correct lat and long. I have noticed that findu may say it
> has been over and hour since it was last heard at this point. That is not

> a issue to me since her ltp that sends the lat/long is set to 45 minutes.
> Very easy to miss a beacon in the DFW area. The wx though sends evrry 5
> minutes. WinAPRS backs this up. One other question, Will, can the
feature
> to change the icon on the wx station be included? Right now it sends
> SYMBD, my digi is wide enabled and the green star with the N in the center
> is more accurate than the empty green star. Maybe it could be put in the
> position field since the N is an overlay of the primary symbol?
>
> Guy
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] Re: Possible bug using 1.12.2 with AAG station and rain gauge

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Mon, 02 Apr 2001 05:55:57 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4379-2001.04.02-07.14.46--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I saw this also. The fix is to go in and reset your uart mode and baud
rate. You will notice they defaulted to new values after you did the
time set. After you do this the black boxes go away. Previous postings
from Will say he knows about this bug and will have a fix soon.
Bill N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] Re: Wx station and KPC-3

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Mon, 02 Apr 2001 06:02:43 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4380-2001.04.02-07.21.27--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Charlie, Is the data making it to the buffers? If you go into the KPC3
and type "LT" you should see the data you forced in LT1,3 and you should
see the wx station data in 2,4 if 2,4 are empty you could have a null
modem problem with your connection between the wx and the TNC. This bit
me once. I'll make up a more complete KPC3 paper and send it out today.
Bill, N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] Re: Digipeater/WX station not getting decoded on findu

From: Guy Story <kc5goi@tapr.org>
Date: Mon, 2 Apr 2001 08:58:55 -0500 (CDT)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4398-2001.04.02-09.15.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

That would explain why the D7A is not displaying the data then too. I
meant to return it to 1.12.0 and forgot.

73,

Guy Story
KC5GOI
kc5goi@tapr.org
http://www.kc5goi.net

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] Re: Digipeater/WX station not getting decoded on findu

From: "William Beals" <will@beals5.com>
Date: Mon, 2 Apr 2001 09:43:16 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4538-2001.04.02-23.00.06--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Changing unknown data to ...'s will be in the next release. It has been
this way all the time, but the wind direction bug has ferreted this out.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Guy Story
Sent: Monday, April 02, 2001 7:59 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Digipeater/WX station not getting decoded on findu

That would explain why the D7A is not displaying the data then too. I
meant to return it to 1.12.0 and forgot.

73,

Guy Story
KC5GOI
kc5goi@tapr.org
http://www.kc5goi.net

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

13. [wxsig] Re: Digipeater/WX station not getting decoded on findu

From: William Delbert Ellis <n5ztw@texas.net>
Date: Mon, 02 Apr 2001 23:02:44 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4540-2001.04.02-23.20.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I found that the "peet" mode is imune to this. I tested it as my wind
direction is not working. TNC-LTP will be ignored by findu but peet will not
, it will just show north all the time..
Bill, N5ZTW

William Beals wrote:

> Folks:
>
> Changing unknown data to ...'s will be in the next release. It has been
> this way all the time, but the wind direction bug has ferreted this out.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Guy Story
> Sent: Monday, April 02, 2001 7:59 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: Digipeater/WX station not getting decoded on findu
>
> That would explain why the D7A is not displaying the data then too. I
> meant to return it to 1.12.0 and forgot.
>
> 73,

>
> Guy Story
> KC5GOI
> kc5goi@tapr.org
> http://www.kc5goi.net
>
> ---
> You are currently subscribed to wxsig as: will@beals5.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
> ---
> You are currently subscribed to wxsig as: n5ztw@texas.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] Humidity Sensor Outdoor Housing

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Tue, 03 Apr 2001 06:37:19 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4610-2001.04.03-07.57.15--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

WX fans, I have designed and built a nifty outside housing for the
humidity sensor that allows air to flow through the housing but keeps
rain from the little PC board. It also has a screen system to keep bugs
out. It costs about $6.00 to build with materials from your local home
improvement store. Basic materials are a 2" PVC cap, coupling and
reducing bushing. It looks good and matches the look of the existing
One-Wire station.
I also added a DS18S20 to the circuit board. Construction time is about
one to two hours. I installed the prototype on Saturday and it seems to
work well. The response time is very favorable. I wrote a detailed
construction procedure with many photos if anyone would like to try and
build one. However the MS Word file is large and can't be posted here.
If you would like a copy let me know. Also if anyone has some web space
to put it on that would be nice if ya'll think the design is OK.
Regards, Bill N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] Re: Humidity Sensor Outdoor Housing

From: mulveyr@iname.com
Date: Tue, 3 Apr 2001 10:08:06 -0400 (EDT)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4621-2001.04.03-09.25.21--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> WX fans, I have designed and built a nifty outside housing for the
> humidity sensor that allows air to flow through the housing but keeps
> rain from the little PC board. It also has a screen system to keep bugs
> out. It costs about $6.00 to build with materials from your local home
> improvement store. Basic materials are a 2" PVC cap, coupling and
> reducing bushing. It looks good and matches the look of the existing
> One-Wire station.
> I also added a DS18S20 to the circuit board. Construction time is about
> one to two hours. I installed the prototype on Saturday and it seems to
> work well. The response time is very favorable. I wrote a detailed
> construction procedure with many photos if anyone would like to try and
> build one. However the MS Word file is large and can't be posted here.
> If you would like a copy let me know. Also if anyone has some web space
> to put it on that would be nice if ya'll think the design is OK.
> Regards, Bill N5ZTW

Hi Bill:

   Sure - I'd like a copy.

   I also have a web server I could put it on (www.mulveyfamily.com), if
you want me to put it up, there.

-Rich, AA2YS

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] RE: Humidity Sensor Outdoor Housing

From: "Ron Walther" <rascal4@mindspring.com>
Date: Tue, 3 Apr 2001 09:16:42 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4643-2001.04.03-11.33.19--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yes Bill, I would like to have a copy...sounds interesting...

73, ron -- W7AI

-----Original Message-----
From: bounce-wxsig-19554@lists.tapr.org
[mailto:bounce-wxsig-19554@lists.tapr.org]On Behalf Of Bill Ellis
Sent: Tuesday, April 03, 2001 5:37 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Humidity Sensor Outdoor Housing

WX fans, I have designed and built a nifty outside housing for the
humidity sensor that allows air to flow through the housing but keeps
rain from the little PC board. It also has a screen system to keep bugs
out. It costs about $6.00 to build with materials from your local home
improvement store. Basic materials are a 2" PVC cap, coupling and
reducing bushing. It looks good and matches the look of the existing
One-Wire station.
I also added a DS18S20 to the circuit board. Construction time is about
one to two hours. I installed the prototype on Saturday and it seems to
work well. The response time is very favorable. I wrote a detailed
construction procedure with many photos if anyone would like to try and
build one. However the MS Word file is large and can't be posted here.
If you would like a copy let me know. Also if anyone has some web space
to put it on that would be nice if ya'll think the design is OK.
Regards, Bill N5ZTW

You are currently subscribed to wxsig as: rascal@azstarnet.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

17. [wxsig] Re: Humidity Sensor Outdoor Housing

From: Mark Bender <mbender@ix.netcom.com>
Date: Tue, 03 Apr 2001 19:12:07 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4744-2001.04.03-21.29.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill,

Could you send me the file on how to build it? Thanks in advance.

Mark Bender, kd6not

Bill Ellis wrote:

> I wrote a detailed
> construction procedure with many photos if anyone would like to try and
> build one. However the MS Word file is large and can't be posted here.
> If you would like a copy let me know. Also if anyone has some web space
> to put it on that would be nice if ya'll think the design is OK.
> Regards, Bill N5ZTW
>
> ---
> You are currently subscribed to wxsig as: mbender@ix.netcom.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

18. [wxsig] Re: Humidity Sensor Outdoor Housing

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Wed, 4 Apr 2001 00:01:05 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4763-2001.04.03-23.17.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

me too,

> -----Original Message-----
> From: bounce-wxsig-15705@lists.tapr.org
> [mailto:bounce-wxsig-15705@lists.tapr.org]On Behalf Of Mark Bender
> Sent: Tuesday, April 03, 2001 22:12 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: Humidity Sensor Outdoor Housing
>
>
> Bill,
>
> Could you send me the file on how to build it? Thanks in advance.
>
> Mark Bender, kd6not
>
>
> Bill Ellis wrote:
>
> > I wrote a detailed
> > construction procedure with many photos if anyone would
> like to try and
> > build one. However the MS Word file is large and can't be
> posted here.
> > If you would like a copy let me know. Also if anyone has
> some web space
> > to put it on that would be nice if ya'll think the design is OK.
> > Regards, Bill N5ZTW
> >
> > ---
> > You are currently subscribed to wxsig as: mbender@ix.netcom.com
> > To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
>
>
> ---
> You are currently subscribed to wxsig as: ka2bqe@amsat.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

19. [wxsig] Re: wxsig digest: April 03, 2001

From: PaulJMC@aol.com
Date: Wed, 4 Apr 2001 15:01:31 EDT
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4890-2001.04.04-14.18.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill,

I'm interested in your word file. Thanks in advance.

Regards,
==========
Paul J. McCrone, Chief Forecaster
HQ Air Force Weather Agency (AFWA) Office Code: XOGM
Email: Paul.McCrone@afwa.af.mil
Phone: (402) 294-2821

 - No HAM call sign yet, but I'm reading up to take the test!
==========

In a message dated 4/4/01 12:47:47 AM Central Daylight Time,

wxsig@lists.tapr.org writes:

> However the MS Word file is large and can't be posted here.
> If you would like a copy let me know. Also if anyone has some web space
> to put it on that would be nice if ya'll think the design is OK.
>

20. [wxsig] Humidity Sensor Housing

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Wed, 04 Apr 2001 13:33:38 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4896-2001.04.04-14.52.23--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

WX fans, Rich Mulvey was nice enough to put my construction paper up on
his web site.
http://www.mulveyfamily.com/weather
So if your looking for a "build it yourself" $6.00 outdoor humidity
sensor housing check it out!
Thank You Rich!
Bill Ellis N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

21. [wxsig] APRSWXNET Description

From: "Russ Chadwick" <crb5@qwest.net>
Date: Wed, 4 Apr 2001 20:35:07 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4943-2001.04.04-21.52.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

A description of APRSWXNET and how it relates to amateur radio public
service is at:

http://www.findu.com/aprswxnet.html

If you would like to join in this ongoing public service effort, and if your
weather station data is on findu.com, send me an e-mail with your callsign,
latitude, longitude, elevation in meters, and nearby town.

Russ   KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

22. [wxsig] t-238 locked up today

From: Guy Story <kc5goi@tapr.org>
Date: Wed, 4 Apr 2001 22:03:22 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-4948-2001.04.04-22.20.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Found a new one today, do not know why or what caused it though. I am
still running 1.12.2 and this morning it locked up. Just before it did,
some really bogus numbers ot sent. 7 inches rain and 32 F. We hit 87
today and have not had rain in a week. Has anyone see this?

Guy

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

23. [wxsig] Re: t-238 locked up today

From: Jack Warren <warren@mail-nh.eng.utr.ti.com>
Date: Thu, 05 Apr 2001 08:39:06 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>

Cc: warren@rainier.eng.utr.ti.com
Message-ID: <LYR15067-5016-2001.04.05-07.55.48--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> some really bogus numbers ot sent. 7 inches rain and 32 F. We hit 87
> today and have not had rain in a week. Has anyone see this?

Interesting numerical relationship: 32 -> 89.6F and 87 -> 30.56C

Coincidence?

Just guessing. Have no guess about the 7" of rain tho...

Hum...

Jack
WB4MDC
FN42fv

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

24. [wxsig] RE: t-238 locked up today

From: "William Beals" <will@beals5.com>
Date: Thu, 5 Apr 2001 09:31:18 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-5165-2001.04.05-22.48.09--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Guy:

Uh-oh. Not good. Was this a transient problem that was fixed by cycling
power or hitting reset or a permanent problem where the unit is really dead.
Not sure about the seven inches of rain, but 32F is something I've see the
temperature sensor put out (0C) on occasion when I was doing nasty things to
it. 31F is also possible (-1C or all 1's). Standard first stuff to check
is power rails for both the processor and the 1-wire bus. The processor
voltage must be good before the 1-wire bus reading can be considered
accurate as it is a ratiometric system.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Guy Story
Sent: Wednesday, April 04, 2001 9:03 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] t-238 locked up today

Found a new one today, do not know why or what caused it though. I am
still running 1.12.2 and this morning it locked up. Just before it did,
some really bogus numbers ot sent. 7 inches rain and 32 F. We hit 87
today and have not had rain in a week. Has anyone see this?

Guy

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

25. [wxsig] RE: t-238 locked up today

From: Guy Story <kc5goi@tapr.org>
Date: Fri, 6 Apr 2001 16:30:36 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-5324-2001.04.06-16.47.23--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

cycling power fixed it. The day it happened was a blue sky day so I am at a loss to explain it.

Guy

-----Original Message-----
From: William Beals [SMTP:will@beals5.com]
Sent: Thursday, April 05, 2001 10:31 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: t-238 locked up today

Guy:

Uh-oh. Not good. Was this a transient problem that was fixed by cycling
power or hitting reset or a permanent problem where the unit is really dead.
Not sure about the seven inches of rain, but 32F is something I've see the
temperature sensor put out (0C) on occasion when I was doing nasty things to
it. 31F is also possible (-1C or all 1's). Standard first stuff to check
is power rails for both the processor and the 1-wire bus. The processor
voltage must be good before the 1-wire bus reading can be considered
accurate as it is a ratiometric system.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Guy Story
Sent: Wednesday, April 04, 2001 9:03 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] t-238 locked up today

Found a new one today, do not know why or what caused it though. I am
still running 1.12.2 and this morning it locked up. Just before it did,
some really bogus numbers ot sent. 7 inches rain and 32 F. We hit 87
today and have not had rain in a week. Has anyone see this?

Guy

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: kc5goi@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

26. [wxsig] RE: t-238 locked up today

From: "William Beals" <will@beals5.com>
Date: Fri, 6 Apr 2001 19:05:38 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-5446-2001.04.07-08.22.26--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Guy:

These are nasty to chase down. Best we can hope for is that it doesn't show
up again. If it does, we'll need to find whatever may be causing it to go
crazy. So far this seems to be one instance (other folk, please chime in if
you are having similar problems).

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Guy Story
Sent: Friday, April 06, 2001 3:31 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: t-238 locked up today

cycling power fixed it. The day it happened was a blue sky day so I am at a

loss to explain it.

Guy

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

27. [wxsig] RE: Humidity Sensor Outdoor Housing

From: "Norberto G. Pennini" <ngpennini@fullzero.com.ar>
Date: Tue, 10 Apr 2001 20:55:40 -0300
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6133-2001.04.10-19.24.06--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Bill, could you tell me where I can buy de Dallas DS18S20 ?

Also would like see your Humidity Sensor Outdoor Housing design.

Thank you.

Norberto.

----- Mensaje original -----
De: "Bill Ellis" <rwsw60@email.sps.mot.com>
Para: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Enviado: martes 3 de abril de 2001 09:37
Asunto: [wxsig] Humidity Sensor Outdoor Housing

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

28. [wxsig] RE: Humidity Sensor Outdoor Housing

From: "William Beals" <will@beals5.com>
Date: Tue, 10 Apr 2001 10:21:17 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6171-2001.04.10-23.38.08--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Norberto:

At last report, there were over 250 folk on this reflector, so I'll be bold
and assume you mean me (Will Beals).

The Dallas DS18S20 can be ordered directly from Dallas on their website
(http://www.dallas.com). The housing I came up with on my humidity sensor
is too embarrassing to explain or show, but if you visit
http://www.mulveyfamily.com/weather, you can see Bill Ellis's housing that
is a much better example than mine.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Norberto G.
Pennini
Sent: Tuesday, April 10, 2001 5:56 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: Humidity Sensor Outdoor Housing

Hi Bill, could you tell me where I can buy de Dallas DS18S20 ?

Also would like see your Humidity Sensor Outdoor Housing design.

Thank you.

Norberto.

----- Mensaje original -----
De: "Bill Ellis" <rwsw60@email.sps.mot.com>
Para: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Enviado: martes 3 de abril de 2001 09:37
Asunto: [wxsig] Humidity Sensor Outdoor Housing

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

29. [wxsig] Re: Humidity Sensor Outdoor Housing

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Wed, 11 Apr 2001 07:37:43 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6220-2001.04.11-07.56.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Larry, The document I wrote to describe how to build the "Sensor
Grenade" can be found at http://www.mulveyfamily.com/weather/
I only built one prototype and it is working very well. It's been in
service only one week.
Many others have requested the document but I'm not sure if any have
attempted construction.
Is there any feedback on construction from someone who has attempted it?
Is it too complex?
Enjoy,
Bill N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

30. [wxsig] Re: wxsig digest: April 10, 2001

From: <cobb@flashmail.com>
Date: Thu, 12 Apr 2001 12:42:06 +0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6404-2001.04.12-00.02.51--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

So sorry to interupt this mailing list

We'd plan to stuying the uC exp.HC908,unfortunedly there wasn't
free publication that we could made Mon08 interface(ABICS=ICS08AB).
There was in Pemicro but to cost for us,and from motorola literature the
schematics and pcb was gone away.After contact some of sps.mot
literature,didn't get response mabe out of their sector.
Cause I'm only students and didn't had dollars(dollars againts our currency
is like works in 1 years to purchase the mon08 interface),so I only plan to
made in
homebrew from spare components.
did someoene had info about Homemade/diffrenet styte to built Mon08 with
cheaply.
Very appreciate for your helping

Cobb

----- Original Message -----
From: TAPR WX Special Interest Group digest <wxsig@lists.tapr.org>
To: wxsig digest recipients <wxsig@lists.tapr.org>
Sent: Wednesday, April 11, 2001 1:00 PM
Subject: wxsig digest: April 10, 2001

> TAPR WX Special Interest Group Digest for Tuesday, April 10, 2001.
>
> 1. RE: Humidity Sensor Outdoor Housing
> 2. RE: Humidity Sensor Outdoor Housing
>
> --
>
> Subject: RE: Humidity Sensor Outdoor Housing
> From: "Norberto G. Pennini" <ngpennini@fullzero.com.ar>
> Date: Tue, 10 Apr 2001 20:55:40 -0300
> X-Message-Number: 1
>
> Hi Bill, could you tell me where I can buy de Dallas DS18S20 ?
>
> Also would like see your Humidity Sensor Outdoor Housing design.

>
> Thank you.
>
> Norberto.
>
> ----- Mensaje original -----
> De: "Bill Ellis" <rwsw60@email.sps.mot.com>
> Para: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Enviado: martes 3 de abril de 2001 09:37
> Asunto: [wxsig] Humidity Sensor Outdoor Housing
>
>
> ---
>
> Subject: RE: Humidity Sensor Outdoor Housing
> From: "William Beals" <will@beals5.com>
> Date: Tue, 10 Apr 2001 10:21:17 -0600
> X-Message-Number: 2
>
> Norberto:
>
> At last report, there were over 250 folk on this reflector, so I'll be
bold
> and assume you mean me (Will Beals).
>
> The Dallas DS18S20 can be ordered directly from Dallas on their website
> (http://www.dallas.com). The housing I came up with on my humidity sensor
> is too embarrassing to explain or show, but if you visit
> http://www.mulveyfamily.com/weather, you can see Bill Ellis's housing that
> is a much better example than mine.
>
> will
>
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Norberto G.
> Pennini
> Sent: Tuesday, April 10, 2001 5:56 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: Humidity Sensor Outdoor Housing
>
>
>
> Hi Bill, could you tell me where I can buy de Dallas DS18S20 ?
>
> Also would like see your Humidity Sensor Outdoor Housing design.
>
> Thank you.
>
> Norberto.
>
> ----- Mensaje original -----
> De: "Bill Ellis" <rwsw60@email.sps.mot.com>
> Para: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Enviado: martes 3 de abril de 2001 09:37
> Asunto: [wxsig] Humidity Sensor Outdoor Housing
>
>
> ---
> You are currently subscribed to wxsig as: will@beals5.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
>
>
> ---
>
> END OF DIGEST
>
> ---
> You are currently subscribed to wxsig as: cobb@flashmail.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org

To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

31. [wxsig] Re: wxsig digest: April 10, 2001

From: "William Beals" <will@beals5.com>
Date: Thu, 12 Apr 2001 09:42:36 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6597-2001.04.12-22.59.26--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Cobb:

For the GP32 manual, follow the following:
1) Go to http://www.mcu.motsps.com/
2) Select 68HC08 under product catalog.
3) Find 68HC908GP32 about 1/4 the way down the list
4) Near the bottom is the datasheet for the manual, it is big.

For the SW assembler, simulator and debugger, follow the following:
1) Go to http://www.pemicro.com/ics08/
2) Click on the link for ICS Software (2nd item in top box)
3) Third item down is the ICS08GP link, chose 16-bit or 32-bit per your
needs.

For a really cheap interface circuit, follow the following:
1) Go to http://www.beals5.com/wx/
2) Select "how to build one" on the left
3) Select "schematic (.pdf)" on the right
4) The circuitry to support debug is U4 with the components around it along
with the trace to pin 33 of the micro and its pullup resistor. That is it!
Note that the schematic symbol for U4 does not include the power and ground
pins.

You may have more questions, if so, feel free to email me.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of
cobb@flashmail.com
Sent: Wednesday, April 11, 2001 11:42 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: wxsig digest: April 10, 2001

So sorry to interupt this mailing list

We'd plan to stuying the uC exp.HC908,unfortunedly there wasn't
free publication that we could made Mon08 interface(ABICS=ICS08AB).
There was in Pemicro but to cost for us,and from motorola literature the
schematics and pcb was gone away.After contact some of sps.mot
literature,didn't get response mabe out of their sector.
Cause I'm only students and didn't had dollars(dollars againts our currency
is like works in 1 years to purchase the mon08 interface),so I only plan to
made in
homebrew from spare components.
did someoene had info about Homemade/diffrenet styte to built Mon08 with
cheaply.
Very appreciate for your helping

Cobb

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

32. [wxsig] Humidity sensor problem

From: Ken Brown <n5kuk@ounnws.noaa.gov>
Date: Fri, 13 Apr 2001 19:45:27 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6743-2001.04.13-15.01.38--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi all,

I have loaded software 1-12-2 and installed a DSHS01K humidity sensor
kit on my T-238 bus. The sensor calibration does not see the sensor if

I have the rest of the weather station plugged in. If I disconnect the
wx station then the humidity sensor is seen and seems to work. I see
the
humidity go up if I exhale on the sensor. If I then connect the rest of
the wx station then the humidity reading goes away as soon as the
sensors
appear. Is this a problem with the humidity sensor or am I doing the
calibration wrong?

Also, can I just remove the temperature sensor from the wind head and
install it on the bus with the humidity sensor?

--

Ken Brown, N5KUK, NWS Forecast Office, Norman OK
ken.brown@ounnws.noaa.gov

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

33. [wxsig] Mesonet map display

From: "Russ Chadwick" <crb5@qwest.net>
Date: Fri, 13 Apr 2001 20:49:09 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6810-2001.04.13-22.06.09--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This is a neat display of surface data from several mesonets (including
APRSWXNET). It is a java applet and may take a while to download on a
conventional modem, but it is worth the wait. The applet has several
features that make it easy to look at the data in different ways.

http://www-frd.fsl.noaa.gov/mesonet/

Comments on this display are welcome.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

34. [wxsig] RE: Humidity sensor problem

From: "William Beals" <will@beals5.com>
Date: Fri, 13 Apr 2001 09:12:09 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6812-2001.04.13-22.28.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ken:

I have some problems with the 1.12.2 release with regard to the humidity
sensor. I added too many features in one release and did not get them all
right. Hopefully this weekend I can do enough testing on the next release
to get it published (expect Sunday).

The T238 code can handle up to two DS18x20 temperature sensors on the bus.
If you have two, you will be asked which ID to select. This feature was
added in support of those folk who had the old DS1820 sensors and then just
added another DS18S20 as a separate sensor in a separate housing. I have
also been asked to allow the temperature sensor used in the humidity sensor
to be the "official" temperature. This feature is on my to-do list but not
implemented yet.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
Sent: Friday, April 13, 2001 1:45 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Humidity sensor problem

Hi all,

I have loaded software 1-12-2 and installed a DSHS01K humidity sensor
kit on my T-238 bus. The sensor calibration does not see the sensor if
I have the rest of the weather station plugged in. If I disconnect the
wx station then the humidity sensor is seen and seems to work. I see
the
humidity go up if I exhale on the sensor. If I then connect the rest of
the wx station then the humidity reading goes away as soon as the
sensors
appear. Is this a problem with the humidity sensor or am I doing the
calibration wrong?

Also, can I just remove the temperature sensor from the wind head and
install it on the bus with the humidity sensor?

--

Ken Brown, N5KUK, NWS Forecast Office, Norman OK
ken.brown@ounnws.noaa.gov

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

35. [wxsig] Re: Mesonet map display

From: "LaPorte County Skywarn" <lapcoskywarn@home.com>
Date: Sat, 14 Apr 2001 08:24:53 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6872-2001.04.14-08.42.09--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ

Is this site now open to the public?

I like the changes.

73's
Ken N9ZIP
NWS (IWX) APRS TECH

----- Original Message -----
From: "Russ Chadwick" <crb5@qwest.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Friday, April 13, 2001 9:49 PM
Subject: [wxsig] Mesonet map display

> This is a neat display of surface data from several mesonets (including
> APRSWXNET). It is a java applet and may take a while to download on a
> conventional modem, but it is worth the wait. The applet has several
> features that make it easy to look at the data in different ways.
>
> http://www-frd.fsl.noaa.gov/mesonet/
>
> Comments on this display are welcome.
>
> Russ
> Boulder, CO
> http://www.users.qwest.net/~crb5/
>
>
>
> ---
> You are currently subscribed to wxsig as: lapcoskywarn@home.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

36. [wxsig] Re: Mesonet map display

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sat, 14 Apr 2001 07:53:19 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6881-2001.04.14-09.10.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Ken,

Yes, the site has been released to the public. We removed the mesonets that had not given permission to use their data. They didn't say we couldn't use the data, they just didn't say anything. We waited a long time and didn't hear a thing from them (after multiple contacts) and so just took them off the list.

Yes, I agree, the new changes are good.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: LaPorte County Skywarn <lapcoskywarn@home.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Saturday, April 14, 2001 7:24 AM
Subject: [wxsig] Re: Mesonet map display

> Russ
>
> Is this site now open to the public?
>
> I like the changes.
>
> 73's
> Ken N9ZIP
> NWS (IWX) APRS TECH
>
> ----- Original Message -----
> From: "Russ Chadwick" <crb5@qwest.net>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Friday, April 13, 2001 9:49 PM
> Subject: [wxsig] Mesonet map display
>
>
> > This is a neat display of surface data from several mesonets (including
> > APRSWXNET). It is a java applet and may take a while to download on a
> > conventional modem, but it is worth the wait. The applet has several
> > features that make it easy to look at the data in different ways.
> >
> > http://www-frd.fsl.noaa.gov/mesonet/
> >
> > Comments on this display are welcome.
> >
> > Russ
> > Boulder, CO
> > http://www.users.qwest.net/~crb5/
> >
> >
> >
> > ---
> > You are currently subscribed to wxsig as: lapcoskywarn@home.com
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> >
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

37. [wxsig] Re: Mesonet map display

From: "Guy Story, KC5GOI" <kc5goi@kc5goi.net>
Date: Sat, 14 Apr 2001 09:33:25 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6888-2001.04.14-09.50.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ, I knew I had given Will permission to place me on his list and guess
I forgot about yours. Feel free to add KC5GOI to the list. I am in Denton
Texas.

Guy

-----Original Message-----
From: Russ Chadwick [SMTP:crb5@qwest.net]
Sent: Saturday, April 14, 2001 8:53 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Mesonet map display

Hi Ken,

Yes, the site has been released to the public. We removed the mesonets
that
had not given permission to use their data. They didn't say we couldn't
use
the data, they just didn't say anything. We waited a long time and didn't
hear a thing from them (after multiple contacts) and so just took them off
the list.

Yes, I agree, the new changes are good.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: LaPorte County Skywarn <lapcoskywarn@home.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Saturday, April 14, 2001 7:24 AM
Subject: [wxsig] Re: Mesonet map display

> Russ
>
> Is this site now open to the public?
>
> I like the changes.
>
> 73's
> Ken N9ZIP
> NWS (IWX) APRS TECH
>
> ----- Original Message -----
> From: "Russ Chadwick" <crb5@qwest.net>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Friday, April 13, 2001 9:49 PM
> Subject: [wxsig] Mesonet map display
>
>
> > This is a neat display of surface data from several mesonets (including
> > APRSWXNET). It is a java applet and may take a while to download on a
> > conventional modem, but it is worth the wait. The applet has several
> > features that make it easy to look at the data in different ways.
> >
> > http://www-frd.fsl.noaa.gov/mesonet/
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> > Comments on this display are welcome.
> >
> > Russ
> > Boulder, CO
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> >
> >
> >
> > ---

> > You are currently subscribed to wxsig as: lapcoskywarn@home.com
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> >
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: kc5goi@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

38. [wxsig] RE: Humidity sensor problem

From: Ken Brown <n5kuk@ounnws.noaa.gov>
Date: Sat, 14 Apr 2001 19:05:34 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6908-2001.04.14-14.21.55--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,
My problem is solved... When it was not working I had only two wires
(buss and ground) from the T238 with both the humidity element and the
wind sensor head on those two wires. When I connected a four wire
cable to the sensor head and then plugged the two wires from the
humidity sensor in to the second jack in the sensor head everything is
now OK with both temperature and humidity working now.

I have looked for the DS18S20 temperature and the DS1994 clock module
on the ibutton site but have been unable to find either of them.
--
Ken Brown, NWS Forecast Office, Norman OK
ken.brown@ounnws.noaa.gov

William Beals wrote:
>
> Ken:
>
> I have some problems with the 1.12.2 release with regard to the humidity
> sensor. I added too many features in one release and did not get them all
> right. Hopefully this weekend I can do enough testing on the next release
> to get it published (expect Sunday).
>
> The T238 code can handle up to two DS18x20 temperature sensors on the bus.
> If you have two, you will be asked which ID to select. This feature was
> added in support of those folk who had the old DS1820 sensors and then just
> added another DS18S20 as a separate sensor in a separate housing. I have
> also been asked to allow the temperature sensor used in the humidity sensor
> to be the "official" temperature. This feature is on my to-do list but not
> implemented yet.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
> Sent: Friday, April 13, 2001 1:45 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Humidity sensor problem
>
> Hi all,
>
> I have loaded software 1-12-2 and installed a DSHS01K humidity sensor
> kit on my T-238 bus. The sensor calibration does not see the sensor if
> I have the rest of the weather station plugged in. If I disconnect the
> wx station then the humidity sensor is seen and seems to work. I see
> the
> humidity go up if I exhale on the sensor. If I then connect the rest of
> the wx station then the humidity reading goes away as soon as the

> sensors
> appear. Is this a problem with the humidity sensor or am I doing the
> calibration wrong?
>
> Also, can I just remove the temperature sensor from the wind head and
> install it on the bus with the humidity sensor?
> --
> Ken Brown, N5KUK, NWS Forecast Office, Norman OK
> ken.brown@ounnws.noaa.gov

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

39. [wxsig] RE: Humidity sensor problem

From: "William Beals" <will@beals5.com>
Date: Sat, 14 Apr 2001 02:32:29 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6914-2001.04.14-15.49.20--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ken:

Glad things are working (mostly)

You should be able to go to http://www.ibutton.com and find all the Dallas
stuff even in small quantities. That is where I got my DS1994s. DS18S20s
may be a bit harder simply because they are not ibuttons and not as easily
sold in small quantities.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
Sent: Saturday, April 14, 2001 1:06 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: Humidity sensor problem

Will,
My problem is solved... When it was not working I had only two wires
(buss and ground) from the T238 with both the humidity element and the
wind sensor head on those two wires. When I connected a four wire
cable to the sensor head and then plugged the two wires from the
humidity sensor in to the second jack in the sensor head everything is
now OK with both temperature and humidity working now.

I have looked for the DS18S20 temperature and the DS1994 clock module
on the ibutton site but have been unable to find either of them.
--
Ken Brown, NWS Forecast Office, Norman OK
ken.brown@ounnws.noaa.gov

William Beals wrote:
>
> Ken:
>
> I have some problems with the 1.12.2 release with regard to the humidity
> sensor. I added too many features in one release and did not get them all
> right. Hopefully this weekend I can do enough testing on the next release
> to get it published (expect Sunday).
>
> The T238 code can handle up to two DS18x20 temperature sensors on the bus.
> If you have two, you will be asked which ID to select. This feature was
> added in support of those folk who had the old DS1820 sensors and then
just
> added another DS18S20 as a separate sensor in a separate housing. I have
> also been asked to allow the temperature sensor used in the humidity
sensor
> to be the "official" temperature. This feature is on my to-do list but
not
> implemented yet.
>
> will
>

> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
> Sent: Friday, April 13, 2001 1:45 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Humidity sensor problem
>
> Hi all,
>
> I have loaded software 1-12-2 and installed a DSHS01K humidity sensor
> kit on my T-238 bus. The sensor calibration does not see the sensor if
> I have the rest of the weather station plugged in. If I disconnect the
> wx station then the humidity sensor is seen and seems to work. I see
> the
> humidity go up if I exhale on the sensor. If I then connect the rest of
> the wx station then the humidity reading goes away as soon as the
> sensors
> appear. Is this a problem with the humidity sensor or am I doing the
> calibration wrong?
>
> Also, can I just remove the temperature sensor from the wind head and
> install it on the bus with the humidity sensor?
> --
> Ken Brown, N5KUK, NWS Forecast Office, Norman OK
> ken.brown@ounnws.noaa.gov

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

40. [wxsig] 1.12.3 Release

From: "William Beals" <will@beals5.com>
Date: Sat, 14 Apr 2001 10:01:35 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-6988-2001.04.14-23.18.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

I have posted 1.12.3 on my website (http://www.beals5.com/wx). Select
"Latest Downloads" and then the 1.12.3 links. Instructions for downloading
the code into your T238 is below the links.

This release is primarily fixing several bugs I introduced into the 1.12.2
release. I made quite a few changes with regard to sensor IDs and how they
were stored in Flash and did not get it right. Thanks for all the feedback,
hopefully I got the bugs fixed. Here is the official list of changes from
the website along with elaborations on a few items:

1) Fixed hole where AAG wdir cal failed in presence of the rain gauge
2) Fixed bug where UART modes/speeds get corrupted when time/date set.
3) Fixed bug where T238 hung on power-up if Humidity sensor set but missing
4) Option to clear rain/humidity sensor ID if sensor is missing
5) Added a prompt to re-insert rain gauge before rain gauge cal
6) Bad APRS data now shown as dots, not dashes (per APRS spec)
7) Fixed bug where wind direction cal worked, but no wind dir shown.
8) Limited humidity to 0& and 100% in software (per sensor suggestion)

Elaborations:

4) You now have the ability to erase the humidity and rain gauge IDs. If
the sensor gets removed permanently, you can now get rid of the ID from
flash. You did not have this option before.

5) Someone's request (forgot who requested it, sorry).

6) Humidity readings are now limited to 100% and 0%. I'm not particularly
happy doing this as it has the potential of masking other problems.
Unfortunately, the sensor itself can put out readings outside this range
under certain circumstances. Rather than put out bad data, I just limit the
values to rational numbers.

==========

While doing the humidity calibration, I have added the question to use the
humidity sensors temperature sensor for the official temperature. Right now
only the question is there, not the code to support it. It doesn't matter
what you answer, the temperature will still come from the DS18x20 you have
installed. Support for this feature will be on the next release.

The operations manual has also been updated to reflect the operational
changes in the newer releases. It can be found on the "how to build one"
status page on the website.

Well, that's about it for release notes. Hopefully I have fixed all the
bugs you have all identified on the previous release. Enjoy and let me know
what you find.

will

==
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

41. [wxsig] APRSWXNET database

From: "Russ Chadwick" <crb5@qwest.net>
Date: Fri, 20 Apr 2001 20:07:04 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8251-2001.04.20-21.24.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

An Excel spreadsheet database that contains all of the people who have
registered for APRSWXNET is available at:

http://www.users.qwest.net/~crb5/archive/

It essentially contains the latest Station.txt file and each participant's
name and e-mail address. These 79 folks (75 hams and 4 non-hams) will all
be on the mesonet map by next Wednesday.

The latitude and longitude are carried in the database to five decimal
places. For display purposes, they appear to two or three decimal places.
The elevation is in integer meters and is displayed as such. If you see any
errors, let me know. I'm sure that I must have made fumble finger typing
errors with some of those names and e-mail addresses.

Russ   KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

42. [wxsig] RE: APRSWXNET database

From: "Guy Story, KC5GOI" <kc5goi@kc5goi.net>
Date: Fri, 20 Apr 2001 21:43:24 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8260-2001.04.20-22.02.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ, you can add W5NGU-3. It belongs to the Denton County Amateur Radio
Association. She is located at 33.13.43 North by 97.07.39 West. As a side
note, it is at 300 ft AGL on top of a dorm.

73

Guy

-----Original Message-----
From: Russ Chadwick [SMTP:crb5@qwest.net]
Sent: Friday, April 20, 2001 9:07 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] APRSWXNET database

An Excel spreadsheet database that contains all of the people who have
registered for APRSWXNET is available at:

http://www.users.qwest.net/~crb5/archive/

It essentially contains the latest Station.txt file and each participant's
name and e-mail address. These 79 folks (75 hams and 4 non-hams) will all
be on the mesonet map by next Wednesday.

The latitude and longitude are carried in the database to five decimal
places. For display purposes, they appear to two or three decimal places.
The elevation is in integer meters and is displayed as such. If you see
any
errors, let me know. I'm sure that I must have made fumble finger typing
errors with some of those names and e-mail addresses.

Russ KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

You are currently subscribed to wxsig as: kc5goi@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

43. [wxsig] Re: APRSWXNET database

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Date: Sat, 21 Apr 2001 09:32:18 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8379-2001.04.21-08.50.44--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ Chadwick wrote:
>
> An Excel spreadsheet database that contains all of the people who have
> registered for APRSWXNET is available at:

Russ,

I'm curently down with a humidity sensor failure and a computer failure
on the box I've been running APRS on. I'm going to try to replace the
sensor today and graft in a newer computer... or replace the current one
with another dedicated to weather and tracking solely, but I may not
succeed (bunches of honey-dos) and may be down a bit longer. I am
hoping to get a provisional SoumiNet site up at the office next week
(barring that, after finals, as I'm teaching this semester) and I'll
make the wx from that available. When we get the "formal" SoumiNet site
for TAMU up, it'll be essentially colocated to the KCLL ASOS, so those
data won't help much in the mesonet scheme of things... but then, I may
move the provisional site somewhere else to cover a better
representation!

73, gerry
--
Gerry Creager -- gerry@cs.tamu.edu
Network Engineering |Research focusing on
Academy for Advanced Telecommunications |Satellite Geodesy and
and Learning Technologies |Geodetic Control
Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

44. [wxsig] 1.12.3 results

From: "William Beals" <will@beals5.com>
Date: Sat, 21 Apr 2001 09:53:38 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8418-2001.04.21-11.43.38--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

The reflector has been pretty quiet lately. I'm curious as to how many folk
have tried out the 1.12.3 release and if they have seen any issues. I've
heard back from a few folk that things seem to be a lot better in terms of
calibrations and getting reliable weather data.

If you know of any continuing problems, please let me (and the reflector)
know.

will

==
This message sent using 100% recycled electrons.
(Minimum 30% post-consumer content)
==
Will Beals (mobile)
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

45. [wxsig] Re: 1.12.3 results

From: Ken Brown <Ken.Brown@ounnws.noaa.gov>
Date: Sat, 21 Apr 2001 16:31:49 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8419-2001.04.21-11.49.09--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

I loaded 1.12.3 last Sunday and it has not caused me the problem of
recognizing only the humidity sensor *or* the sensors in the wind head
but not both at the same time. I ran the TNC output into a computer
to log it for a while and it never had a problem even when I stopped
and recalled some sensors.
--
Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

William Beals wrote:
>
> Folks:
>
> The reflector has been pretty quiet lately. I'm curious as to how many folk
> have tried out the 1.12.3 release and if they have seen any issues. I've
> heard back from a few folk that things seem to be a lot better in terms of
> calibrations and getting reliable weather data.
>
> If you know of any continuing problems, please let me (and the reflector)
> know.
>
> will
>
> ==
> This message sent using 100% recycled electrons.
> (Minimum 30% post-consumer content)
> ==
> Will Beals (mobile)
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
> ---
> You are currently subscribed to wxsig as: ken.brown@ounnws.noaa.gov
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

46. [wxsig] RE: 1.12.3 results

From: "Guy Story, KC5GOI" <kc5goi@kc5goi.net>
Date: Sat, 21 Apr 2001 15:41:37 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8441-2001.04.21-16.00.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will, so far so good. The W5NGU-3 site seems to have an issue with the reset button but that seems to be isolated to the site. The station at the house does not have that problem. 1.12.3 seems to be stable and solid.

73

Guy

-----Original Message-----
From: William Beals [SMTP:will@beals5.com]
Sent: Saturday, April 21, 2001 10:54 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] 1.12.3 results

Folks:

The reflector has been pretty quiet lately. I'm curious as to how many folk
have tried out the 1.12.3 release and if they have seen any issues. I've heard back from a few folk that things seem to be a lot better in terms of calibrations and getting reliable weather data.

If you know of any continuing problems, please let me (and the reflector) know.

will

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(Minimum 30% post-consumer content)
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Will Beals (mobile)
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: kc5goi@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

47. [wxsig] Forum Archive, Can't download

From: "Bill Wallick" <kc0fnv@arrl.net>
Date: Sun, 22 Apr 2001 17:22:1
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8573-2001.04.22-17.39.26--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I would like to learn more about the T238 project, and especially what others have had to say about the progress, bugs, efforts, etc.

I downloaded some of the Mail_Archive, from the FTP site, but it will not let me have any of the items since Jan 2001. Give a permission error in FTP.

I am signed up for the forum (obviously), but would like to read over the most recent traffic.

Let me know.

Bill Wallick, KC0FNV, Woodland Park, CO

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

48. [wxsig] RE: Forum Archive, Can't download

From: "Steven R. Bible" <srbible@gate.net>
Date: Sun, 22 Apr 2001 20:32:10 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8599-2001.04.22-22.49.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill,

I am note quite sure why the permissions are wrong. I think I fixed them.
Give them a try now.

- Steve, N7HPR
  (n7hpr@tapr.org)

-----Original Message-----
From: bounce-wxsig-15059@lists.tapr.org
[mailto:bounce-wxsig-15059@lists.tapr.org]On Behalf Of Bill Wallick
Sent: Sunday, April 22, 2001 5:00 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Forum Archive, Can't download

I would like to learn more about the T238 project, and especially what
others have had to say about the progress, bugs, efforts, etc.

I downloaded some of the Mail_Archive, from the FTP site, but it will not
let me have any of the items since Jan 2001. Give a permission error in
FTP.

I am signed up for the forum (obviously), but would like to read over the
most recent traffic.

Let me know.

Bill Wallick, KC0FNV, Woodland Park, CO

You are currently subscribed to wxsig as: srbible@gate.net
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

49. [wxsig] Re: 1.12.3 results

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Mon, 23 Apr 2001 07:41:04 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8650-2001.04.23-08.00.48--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I had been waiting to give 1.12.3 a week of testing on my system before
commenting. I installed last Monday so here goes:
As you know I have had major problems with wind direction. with 1.12.3
my wind direction problems seem to be totally gone!
This has been a major issue with my station to the point the last few
code versions would never calibrate as the "silicon serial numbers" for
the reed switches were never seen.
The system calibrates every time now! Thanks for all your hard work
Will. This project just keeps getting better.
We had a major thunderstorm blast by this morning at 05:00 and every
sensor seemed to respond to the drastic changes.
http://www.findu.com/cgi-bin/wxpage.cgi?N5ZTW
Bill N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

50. [wxsig] RE: Forum Archive, Can't download

From: "Bill Wallick" <kc0fnv@arrl.net>
Date: Mon, 23 Apr 2001 9:1:42
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8665-2001.04.23-09.19.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yes, sir... It works now... Thanks.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

51. [wxsig] Wind Speed

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Mon, 23 Apr 2001 10:26:33 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8672-2001.04.23-10.46.23--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have noticed that my wind speed is running half the value of other
stations in the area and the news media. If I remember correctly the
wind speed sensor is one reed switch connected to a counter. The
mechanical end of the sensor has two magnets that pulse the counter. It
is obvious to me there are two maginets for mechanical balance. This
would give two pulses or counts per revolution. The question is if one
of the magnets was mounted upside down or in some opposite pole mode is
it possible that one magnet may not be triggering the reed switch?
This would give a half reading. I'm sure both magnets were present when
I put the station up and it seems I have had this 1/2 issue since the
beginning. Has anyone else seen this? I'm sure the T238 software is ok I
believe one magnet is not triggering the switch. Any hints from the
group?
Bill N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

52. [wxsig] Re: Wind Speed

From: mulveyr@iname.com
Date: Mon, 23 Apr 2001 11:42:23 -0400 (EDT)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8677-2001.04.23-10.59.57--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> I have noticed that my wind speed is running half the value of other
> stations in the area and the news media. If I remember correctly the
> wind speed sensor is one reed switch connected to a counter. The
> mechanical end of the sensor has two magnets that pulse the counter. It
> is obvious to me there are two maginets for mechanical balance. This
> would give two pulses or counts per revolution. The question is if one
> of the magnets was mounted upside down or in some opposite pole mode is
> it possible that one magnet may not be triggering the reed switch?
> This would give a half reading. I'm sure both magnets were present when
> I put the station up and it seems I have had this 1/2 issue since the
> beginning. Has anyone else seen this? I'm sure the T238 software is ok I
> believe one magnet is not triggering the switch. Any hints from the
> group?

Bill:

   Is it possible that the location is a problem?

   For example - I live in a narrow stream valley, on a street shaped
like a 'U'. I have to put my wx station in the middle of the U,
where it's blocked by houses about 100 feet away, in almost all
directions.

   During a storm, I can sit on my porch and watch trees up on the valley
ridge practically bend in half, while my aneometer barely moves -
we're that well protected.

   Obstacles to the weather station can make a HUGE difference. :-)

- Rich

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

53. [wxsig] PACK*BASH at the 2001 Dayton Hamvention

From: John Ackermann N8UR <jra@febo.com>
Date: Mon, 23 Apr 2001 19:11:32 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8765-2001.04.23-18.30.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yes, there will be a PACK*BASH this year! Things were a bit uncertain for
a while as we just learned that our traditional site would not be available
this year. But we've found a very good alternative, and we invite you to
attend the 2001 PACK*BASH.

If you'd like to attend, please contact the TAPR office as described below.

What?
        An event for the digitally-inclined ham, featuring:
        * Buffet dinner
        * Keynote Address (Speaker to be named)
        * TAPR special interest group meetings
        * "Birds of a Feather" gatherings

When?
        Friday evening, May 18, 2001
        Doors open at 7:00 pm; dinner served at 7:30 pm
        Speaker and meetings after dinner

Where?
        *** NEW LOCATION ***
        The NCR "Sugarcamp" facility that we've used in the past is no
longer
        available. Instead, we'll be at Kohler's Banquet Center, 4548
        Presidential Way, Kettering (39 40.75N, 84 08.43W), just south of
        East David Road between Far Hills Ave. and Wilmingon Pike.
        Maps available on the TAPR web site (www.tapr.org) or at the
        TAPR booth.

How?
        Dinner requires advance registration and payment through TAPR.
        Tickets will be available at the TAPR booth on Friday, though
        we strongly encourage registration <before> Hamvention. The cost
        is $25.00 per person, tax and tip included.

        All amateurs are welcome to attend, enjoy the speaker, and
        particpate in the meetings, although only those purchasing a dinner
        can eat.

        To register, contact:
        PACK*BASH
        c/o TAPR
        8987-309 E. Tanque Verde Road #337
        Tucson, AZ   85749-9399

        Phone: (940) 383-0000
        Fax: (940) 566-2544
        Internet: tapr@tapr.org

        Visa/Mastercard Accepted

Who?
        PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet Radio,
        the national leader in digital communication -- and the Miami
        Valley FM Association, Dayton's packet radio club.

For more information (including maps), go to
http://www.tapr.org/tapr/html/dayton.html, or send email to tapr@tapr.org.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

54. [wxsig] Re: 1.12.3 results

From: "William Beals" <will@beals5.com>
Date: Mon, 23 Apr 2001 21:58:26 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8826-2001.04.23-23.15.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill:

Glad things are working nicely now. Catching the problem where there was a conflict on the switch IDs for the wind direction sensor and rain gauge only showes up if the IDs differ in a specific way. It wasn't a difference I had.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Ellis
Sent: Monday, April 23, 2001 6:41 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 1.12.3 results

I had been waiting to give 1.12.3 a week of testing on my system before commenting. I installed last Monday so here goes:
As you know I have had major problems with wind direction. with 1.12.3 my wind direction problems seem to be totally gone!
This has been a major issue with my station to the point the last few code versions would never calibrate as the "silicon serial numbers" for the reed switches were never seen.
The system calibrates every time now! Thanks for all your hard work Will. This project just keeps getting better.
We had a major thunderstorm blast by this morning at 05:00 and every sensor seemed to respond to the drastic changes.
http://www.findu.com/cgi-bin/wxpage.cgi?N5ZTW
Bill N5ZTW

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

55. [wxsig] RE: Wind Speed

From: "William Beals" <will@beals5.com>
Date: Mon, 23 Apr 2001 21:58:28 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-8827-2001.04.23-23.15.48--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill:

Differing locations can certainly make a difference. Another technical possibility is that one of your magnets is missing/misaligned. There is only one reed switch, but two magnets on the spindle for the wind speed. If only one of those magnets is making the reed switch toggle, you'd get exactly half the wind speed. If you are able to get quiet access to the sensor (indoors with no noise), you may be able to listen for the clicking of the reed switches. You should hear two per revolution. If you hear only one, that would suggest trouble. Hopefully the paddle with the reed switches is just a little crooked instead of missing the magnet.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Ellis
Sent: Monday, April 23, 2001 9:27 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Wind Speed

I have noticed that my wind speed is running half the value of other stations in the area and the news media. If I remember correctly the wind speed sensor is one reed switch connected to a counter. The

mechanical end of the sensor has two magnets that pulse the counter. It
is obvious to me there are two maginets for mechanical balance. This
would give two pulses or counts per revolution. The question is if one
of the magnets was mounted upside down or in some opposite pole mode is
it possible that one magnet may not be triggering the reed switch?
This would give a half reading. I'm sure both magnets were present when
I put the station up and it seems I have had this 1/2 issue since the
beginning. Has anyone else seen this? I'm sure the T238 software is ok I
believe one magnet is not triggering the switch. Any hints from the
group?
Bill N5ZTW

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

56. [wxsig] T238 1.12.3 Questions

From: Doug <dbuhrman@radiks.net>
Date: Wed, 25 Apr 2001 21:59:45 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-9239-2001.04.25-22.17.56--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will:
I finally got around to updating my T238 to version 1.12.3. For testing
purposes I have it setup in the shack to a Dallas Wx station and a
humidity board, total cable length is 3 feet. The bus voltage shows
around 4.4 volts.

The humidity board racks up alot of errors (the other sensors are
fine). When it gets to 63 the next error will start at zero. This
is a consistent problem. The error count on the APRS packet
at the end of the hour never matches the error counter. Any ideas?

Doug   K0DSP

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

57. [wxsig] Re: T238 1.12.3 Questions

From: "Russ Chadwick" <crb5@qwest.net>
Date: Wed, 25 Apr 2001 21:23:55 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-9242-2001.04.25-22.41.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Doug,

The error counters are only 0 through 63 and than they roll over. Did this
just start in the past day, because your error counts have been fairly
steady. There are some increments, but some hours, there are no changes.

The error counts that are sent once per hour is the values at the end of the
5 minute period that occured after the hour change. So, it is unlikely that
the sent error count would match the error count at the top of the hour.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: Doug <dbuhrman@radiks.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Wednesday, April 25, 2001 9:59 PM
Subject: [wxsig] T238 1.12.3 Questions

> Will:
> I finally got around to updating my T238 to version 1.12.3. For testing
> purposes I have it setup in the shack to a Dallas Wx station and a

> humidity board, total cable length is 3 feet. The bus voltage shows
> around 4.4 volts.
>
> The humidity board racks up alot of errors (the other sensors are
> fine). When it gets to 63 the next error will start at zero. This
> is a consistent problem. The error count on the APRS packet
> at the end of the hour never matches the error counter. Any ideas?
>
> Doug   K0DSP
>
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

58. [wxsig] Re: T238 1.12.3 Questions

From: "William Beals" <will@beals5.com>
Date: Wed, 25 Apr 2001 23:52:51 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-9264-2001.04.26-01.20.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Doug:

Some further elaborations on Russes answers:

The error counter on the LCD is in decimal and is supposed to roll over at
63, I only look at the least six bits for error counting. The number in the
APRS packet is the hex value of the complete byte. The two MSBs of that
byte are short-term error flags and should be ignored if you would like to
compare their value to the one displayed on the LCD.

Right now I increment the error counter for two kinds of errors. First is
the regular COMM error, where data fails a CRC or something. The second
reason it may increment is if I calculate a humidity greater than 100% or
less than 0%. In such cases I limit the reading to 0-100 and incrememnt the
error counter. This seemed fine in theory, but as I've looked at my own
data, I am merging two error conditions into one that should really be
seperate. I will probably pull out the code that increments errors on
out-of-bounds readings as they can happen according to the sensor folk.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Russ Chadwick
Sent: Wednesday, April 25, 2001 9:24 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: T238 1.12.3 Questions

Doug,

The error counters are only 0 through 63 and than they roll over. Did this
just start in the past day, because your error counts have been fairly
steady. There are some increments, but some hours, there are no changes.

The error counts that are sent once per hour is the values at the end of the
5 minute period that occured after the hour change. So, it is unlikely that
the sent error count would match the error count at the top of the hour.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: Doug <dbuhrman@radiks.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Wednesday, April 25, 2001 9:59 PM
Subject: [wxsig] T238 1.12.3 Questions

> Will:
> I finally got around to updating my T238 to version 1.12.3. For testing
> purposes I have it setup in the shack to a Dallas Wx station and a
> humidity board, total cable length is 3 feet. The bus voltage shows
> around 4.4 volts.
>
> The humidity board racks up alot of errors (the other sensors are
> fine). When it gets to 63 the next error will start at zero. This
> is a consistent problem. The error count on the APRS packet
> at the end of the hour never matches the error counter. Any ideas?
>
> Doug   K0DSP
>
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

59. [wxsig] Re: T238 1.12.3 Questions

From: "Russ Chadwick" <crb5@qwest.net>
Date: Thu, 26 Apr 2001 06:13:18 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-9279-2001.04.26-07.30.51--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

For those of you who may not be not be familar with the T-238 error counts,
I record and post all the hourly values for the 1-Wire / T-238 stations on
the internet to my web page below. That is what is contained in the
diagnostic files.

Russ   KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: William Beals <will@beals5.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Wednesday, April 25, 2001 11:52 PM
Subject: [wxsig] Re: T238 1.12.3 Questions

> Doug:
>
> Some further elaborations on Russes answers:
>
> The error counter on the LCD is in decimal and is supposed to roll over at
> 63, I only look at the least six bits for error counting. The number in
the
> APRS packet is the hex value of the complete byte. The two MSBs of that
> byte are short-term error flags and should be ignored if you would like to
> compare their value to the one displayed on the LCD.
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> Right now I increment the error counter for two kinds of errors. First is
> the regular COMM error, where data fails a CRC or something. The second
> reason it may increment is if I calculate a humidity greater than 100% or
> less than 0%. In such cases I limit the reading to 0-100 and incrememnt
the
> error counter. This seemed fine in theory, but as I've looked at my own
> data, I am merging two error conditions into one that should really be
> seperate. I will probably pull out the code that increments errors on
> out-of-bounds readings as they can happen according to the sensor folk.
>
> will

>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Russ Chadwick
> Sent: Wednesday, April 25, 2001 9:24 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: T238 1.12.3 Questions
>
>
> Doug,
>
> The error counters are only 0 through 63 and than they roll over. Did
this
> just start in the past day, because your error counts have been fairly
> steady. There are some increments, but some hours, there are no changes.
>
> The error counts that are sent once per hour is the values at the end of
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> 5 minute period that occured after the hour change. So, it is unlikely
that
> the sent error count would match the error count at the top of the hour.
>
> Russ
> Boulder, CO
> http://www.users.qwest.net/~crb5/
>
>
> ----- Original Message -----
> From: Doug <dbuhrman@radiks.net>
> To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
> Sent: Wednesday, April 25, 2001 9:59 PM
> Subject: [wxsig] T238 1.12.3 Questions
>
>
> > Will:
> > I finally got around to updating my T238 to version 1.12.3. For testing
> > purposes I have it setup in the shack to a Dallas Wx station and a
> > humidity board, total cable length is 3 feet. The bus voltage shows
> > around 4.4 volts.
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> > The humidity board racks up alot of errors (the other sensors are
> > fine). When it gets to 63 the next error will start at zero. This
> > is a consistent problem. The error count on the APRS packet
> > at the end of the hour never matches the error counter. Any ideas?
> >
> > Doug   K0DSP
> >
> >
> >
> > ---
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> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
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>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

60. [wxsig] Dayton Hamfest: APRS at the TAPR Digital Forum

From: Steve Dimse <k4hg@tapr.org>
Date: Thu, 26 Apr 2001 10:39:26 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-9325-2001.04.26-09.57.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

..
Once again I have been handed the utterly impossible task of covering all
of APRS in 45 minutes within the TAPR Digital Forum on Friday. Without
announcement I have already received four requests for time. In previous
years, I tried to do a "What's New" sort of presentation myself, but this
year I will let people speak for themselves...here are the ground rules:

1. Anyone that wants to talk should email me directly (k4hg@tapr.org)
with a request, giving presenter's name, callsign, and topic. The
deadline for requests will be 0000z on May 5th. NO EXCEPTIONS!

2. Given that the requests already total more than the allocated 45
minutes, time will be split evenly among all who request. If any
presentations run short, there will be a general Q&A period afterwards.
NO EXCEPTIONS!

3. Given the problems that usually occur when trying to connect laptops
to the projector at presentations, no computers will be allowed. If you
have something you want to show off, create a handout to be passed out
prior to the presentation. NO EXCEPTIONS!

4. I will be very strict about time, I will notify the speakers in
advance of the time per presentation. Time will start from when you are
announced, not when you get to the front and start talking, so get there
early and sit in front if you want to maximize your time. I suggest you
practice to get it all in within your allocated time. NO EXCEPTIONS!

5. No yielding of allocated time (I.e. don't bother getting 5 of your
buddies to request time so you can talk longer). NO EXCEPTIONS!

6. If you ask for time, and then can't make it, please let me know as
soon as possible so that I can adjust the schedule.

7. It would good to announce where you will be later in the day for
questions, since there will be little if any time for questions to be
fielded at the time.

Sorry for the rules, but this is hard enough to do in a 6 hour format at
the DCC, 45 minutes is really tough.

I'd like a volunteer or two to help distribute handouts so we can
minimize disruptions.

Steve K4HG

[Please forward this to any APRS-related lists I miss]

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

61. [wxsig] Re: T238 1.12.3 Questions

From: "William Beals" <will@beals5.com>
Date: Thu, 26 Apr 2001 19:38:26 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-9494-2001.04.26-23.52.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Doug:

Oops, a correction. I had some time at an airport and went in to fix the
error counters as I had mentioned a day or so ago. I only increment the
error counters if there is a bus error of some kind. I don't increment them
when I just get readings that are outside the 0-100 range.

If you are getting the error counters for humidity incrementing, then you
are having some communications problems. 4.4V is a good bus measurement
voltage, so that is not the problem. Other things I can suggest (or ask) is
if you have a particularly long cable run or something. Another thing we've
seen interfere with good communications is a large fork in your cabling,
that is two long cables forking out from a single point. If none of those
work you can try out removing sensors (as you are able) one at a time and
see if the problem goes away. If one sensors departure suddenly makes
things work, look at it carefully.

will

-----Original Message-----
From: William Beals [mailto:will@beals5.com]

Sent: Wednesday, April 25, 2001 11:53 PM
To: 'TAPR WX Special Interest Group'
Subject: RE: [wxsig] Re: T238 1.12.3 Questions

Doug:

Some further elaborations on Russes answers:

The error counter on the LCD is in decimal and is supposed to roll over at 63, I only look at the least six bits for error counting. The number in the APRS packet is the hex value of the complete byte. The two MSBs of that byte are short-term error flags and should be ignored if you would like to compare their value to the one displayed on the LCD.

Right now I increment the error counter for two kinds of errors. First is the regular COMM error, where data fails a CRC or something. The second reason it may increment is if I calculate a humidity greater than 100% or less than 0%. In such cases I limit the reading to 0-100 and incrememnt the error counter. This seemed fine in theory, but as I've looked at my own data, I am merging two error conditions into one that should really be seperate. I will probably pull o the code that increments errors on out-of-bounds readings as they can happen according to the sensor folk.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Russ Chadwick
Sent: Wednesday, April 25, 2001 9:24 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: T238 1.12.3 Questions

Doug,

The error counters are only 0 through 63 and than they roll over. Did this just start in the past day, because your error counts have been fairly steady. There are some increments, but some hours, there are no changes.

The error counts that are sent once per hour is the values at the end of the 5 minute period that occured after the hour change. So, it is unlikely that the sent error count would match the error count at the top of the hour.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: Doug <dbuhrman@radiks.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Wednesday, April 25, 2001 9:59 PM
Subject: [wxsig] T238 1.12.3 Questions

> Will:
> I finally got around to updating my T238 to version 1.12.3. For testing
> purposes I have it setup in the shack to a Dallas Wx station and a
> humidity board, total cable length is 3 feet. The bus voltage shows
> around 4.4 volts.
>
> The humidity board racks up alot of errors (the other sensors are
> fine). When it gets to 63 the next error will start at zero. This
> is a consistent problem. The error count on the APRS packet
> at the end of the hour never matches the error counter. Any ideas?
>
> Doug K0DSP
>
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

62. [wxsig] APRSWXNET humidity checking change

From: "Russ Chadwick" <crb5@qwest.net>
Date: Fri, 27 Apr 2001 22:31:18 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-9728-2001.04.27-23.49.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The data from the APRSWXNET weather stations is quality checked to help in finding out of spec transducers and other problems. Today a slight change in the humidity checking, which affects the temperature dew point, was made.

Up to now the humidity check was done on all values of 00 to 99. However, it appears that some weather stations produce a value of 00 when there is no humidity sensor attached. So, now the value is checked and if it is 00 and if so, it is considered to be a NO DATA case. So, the humidity range that is checked now is 01% to 99%.

You can see these results in the APRSWXNET quality checking part of the web site below.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

63. [wxsig] Citizen weather data and APRSWXNET

From: "Russ Chadwick" <crb5@qwest.net>
Date: Mon, 30 Apr 2001 20:01:26 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-10142-2001.04.30-21.19.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Citizens that are not involved in amateur radio can now send their weather data to findu.com and then register and have the data flow to APRSWXNET for display on the mesonet map display at:

http://www-frd.fsl.noaa.gov/mesonet/

So, if you have a relative, like your Aunt Emma, who has an internet connection and is interested in the weather, you now can give her a weather station. And you can set things up so that her data goes on the internet to be used by many people. What an interesting gift for Aunt Emma!

The process for registering her and getting her a Citizens Weather Designator (CWD) is given on this web page:

http://www.findu.com/citizenweather/

In addition to the map display, the weather data will also be processed and checked as described on the APRSWXNET part of the web page below.

Russ KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

May 2001

Original source file: wxsig.0105
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0105

1. [wxsig] RE: T238 software update

From: "William Beals" <will@beals5.com>
Date: Tue, 1 May 2001 21:27:30 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: "wxsig \(TAPR\)" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-10307-2001.05.01-22.44.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Donald:

(I am copying wxsig, as there may be other folk who've recently completed
kits that probably have the same question.)

I thought decent instructions were on the website, but can't find them!
I'll detail it in an email here and then post it on the website soon.

To download new code you do have (or can get) everything you need.

1) Besides the latest object code (the .s19 file) you also need the mon08
executable (called DOS-based downloader) that is also on the "latest
downloads" page on the website (http://www.beals5.com/wx).

2) Make sure the .s19 file and the mon08.exe file are in the same directory.

3a) For Win95 and Win98, choose "shut down", but then choose "restart in DOS
mode" instead of the regular "shut down" option. When you do this your
computer will reboot and come up in DOS mode instead of windows.

3b) For WinME you will need to format a new floppy (with the system button
checked) and then copy the mon08.exe and .s19 file to that disk. Then boot
from that disk instead to get a DOS prompt.

3c) For Win NT or anything else, I'm not sure. The main thing is that you
need a native DOS mode for my program. A DOS window under another OS does
not work.

4) Go to the directory where you downloaded your two files.

5) Connect a serial cable from your computers COM port to the computer
connector on the T238.

6) With the T238 powered up, press and hold down both the up and down
buttons simultaneously while pressing and releasing RESET. After releasing
RESET you should see the LCD display a message saying MON08 version x.xx.x.
NOTE: Earlier adopters of the T238 will not see this message, they will just
see rows of boxes.

5) On your PC, type "MON08 1-12-3.s19 1" assuming you are downloading 1.12.3
using COM1. Substitute versions or COM port numbers as needed.

6) The MON08 program will confirm that there are some addresses that are
outside its programming range. This is normal, say OK.

7) The MON08 program will now download the new code to your T238. Addresses
will scroll by as this happens. It doesn't hurt to keep an eye on them to
see if anything strange happens. As long as you are in native DOS mode it
should go OK.

8) When the download is complete, MON08 exits and the T238 reboots and
should start running the new code.

9a) For Win95 and Win98, type EXIT to get back to regular windows mode.

9b) For WinME remove the floppy and type Control-Alt-Delete to reboot back
into Windows.

10) Hopefully that should work smoothly

will

-----Original Message-----
From: Donald Dillaby [mailto:ddillaby@mediaone.net]
Sent: Tuesday, May 01, 2001 6:25 PM

To: will@beals5.com
Subject: T238 software update

Will:

I have finally taken the plunge and finished my T238, which, much to my amazement, worked as advertised at the initial power up. However, I am not comfortable with trying to set it up or upload your update to it.I have downloaded your latest update, 1.12.3, but am not really sure what to do with it or how to get it onto the T238. I am running Win95 on all of my machines, which was installed without dos. Any suggestions as to my next step?

Don Dillaby
KA1GOZ

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] PCB Layout

From: Hugo Marçal <hugo@affairnet.com.br>
Date: Thu, 3 May 2001 17:45:10 -0300
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-10658-2001.05.03-16.06.57--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Where I find the PCB of T-238 so that I can make the board.
In the site of the TAPR I made download of manuals but so I have the diagram of the electric circuit.

Hugo

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] RE: PCB Layout

From: "William Beals" <will@beals5.com>
Date: Thu, 3 May 2001 21:53:32 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-10737-2001.05.03-23.10.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hugo:

I haven't mess with the TAPR archives, but the assembly manual is also available on the T238 project site (http://www.beals5.com/wx). Select "how to build one" and download the assembly manual. The back of this manual contains the schematic for the T238 as well as plots of the layout. As it is a double-sided board with plated through holes, they plots aren't too useful for making your own board.

If you want to order the kit, go to TAPRs website (http://www.tapr.org), select the T238 APRS Wx station and about 1/3 down the page is the order button to get the kit. TAPR does not offer just the bare board though.

I hope this answers your questions, if not please ask further.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Hugo Marçal
Sent: Thursday, May 03, 2001 2:45 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] PCB Layout

Where I find the PCB of T-238 so that I can make the board.
In the site of the TAPR I made download of manuals but so I have the diagram of the electric circuit.

Hugo

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] DS1994 on T-238 problem

From: mulveyr@iname.com
Date: Thu, 10 May 2001 18:56:50 -0400 (EDT)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12051-2001.05.10-18.16.18--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I suppose this is really for Will, more than anyone else. :-)

   I've installed a ds1994 on the prototype area on my T-238. After powering up, the
t-238 sees it fine. It reads the GMT time programmed into the button correctly.
However, the t-238 does not seem to be saving the local time offset across reboots -
whenever I restart, the local time is reset to 23.

   Any ideas? Is this a bug? Or does the software not actually save the local
time offset?

   I'm using vers. 1.12.3 of the software.

Thanks!
   - Rich

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] RE: DS1994 on T-238 problem

From: "William Beals" <will@beals5.com>
Date: Thu, 10 May 2001 21:12:16 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12083-2001.05.10-22.29.20--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

Yup, for me, but the answer is clearly for all:

What you need to do is go through the time setting process once more after
installing the DS1994. Once I see a DS1994, I know to figure out the
GMT-Local offset and store it in memory for future use. From then on you
should be OK. Since it was not a feature from the get-go, I have to assume
nothing until I see the right combination of events.

BTW: I do nothing for daylight savings time, so when that comes (or goes),
you will need to make adjustments as needed.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of mulveyr@iname.com
Sent: Thursday, May 10, 2001 4:57 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] DS1994 on T-238 problem

   I suppose this is really for Will, more than anyone else. :-)

   I've installed a ds1994 on the prototype area on my T-238. After
powering up, the
t-238 sees it fine. It reads the GMT time programmed into the button
correctly.
However, the t-238 does not seem to be saving the local time offset across
reboots -
whenever I restart, the local time is reset to 23.

   Any ideas? Is this a bug? Or does the software not actually save the
local

time offset?

   I'm using vers. 1.12.3 of the software.

Thanks!
   - Rich

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] RE: DS1994 on T-238 problem

From: Richard Mulvey <mulveyr@iname.com>
Date: 10 May 2001 23:30:48 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12088-2001.05.10-22.56.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 10 May 2001 21:12:16 -0600, William Beals wrote:
> Rich:
>
> Yup, for me, but the answer is clearly for all:
>
> What you need to do is go through the time setting process once more after
> installing the DS1994. Once I see a DS1994, I know to figure out the
> GMT-Local offset and store it in memory for future use. From then on you
> should be OK. Since it was not a feature from the get-go, I have to assume
> nothing until I see the right combination of events.
>
> BTW: I do nothing for daylight savings time, so when that comes (or goes),
> you will need to make adjustments as needed.
>
> will
>

   Actually, I had gone through the process - for example, I just went
into the menu option to select the date/time, used Select to move
through the GMT time (05/11/01 03:26) (essentially just skipping
through the fields with Select), and then selected the local hour (23
).   After confirming the hour, restarted the T-238, and when I went
to the Display screen, it showed the correct GMT time, but the local
time was shown as 04:27, not 23:27.

- Rich

> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of mulveyr@iname.com
> Sent: Thursday, May 10, 2001 4:57 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] DS1994 on T-238 problem
>
>
>   I suppose this is really for Will, more than anyone else. :-)
>
>   I've installed a ds1994 on the prototype area on my T-238. After
> powering up, the
> t-238 sees it fine. It reads the GMT time programmed into the button
> correctly.
> However, the t-238 does not seem to be saving the local time offset across
> reboots -
> whenever I restart, the local time is reset to 23.
>
>   Any ideas? Is this a bug? Or does the software not actually save the
> local
> time offset?
>
>   I'm using vers. 1.12.3 of the software.
>
> Thanks!
>   - Rich

>
>

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] RE: DS1994 on T-238 problem

From: Ken Brown <Ken.Brown@ounnws.noaa.gov>
Date: Fri, 11 May 2001 15:05:38 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12222-2001.05.11-10.23.50--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

I just received a DS1994 clock and mounting clip but have no info on
how to set the time in it initially with a PC. I assume that it can
be connected to a PC with the RS232 adapter that came with the weather
station but I need to find the software to to the programming. When
I downloaded the data sheet for the DS1994 it didn't address the way
to program it. Can you advise what the software is called and where
it can be downloaded? Or, does the DS1994 come from ibutton already
programmed correctly for operation with the T-238?
--
Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

William Beals wrote:
>
> Rich:
>
> Yup, for me, but the answer is clearly for all:
>
> What you need to do is go through the time setting process once more after
> installing the DS1994. Once I see a DS1994, I know to figure out the
> GMT-Local offset and store it in memory for future use. From then on you
> should be OK. Since it was not a feature from the get-go, I have to assume
> nothing until I see the right combination of events.
>
> BTW: I do nothing for daylight savings time, so when that comes (or goes),
> you will need to make adjustments as needed.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of mulveyr@iname.com
> Sent: Thursday, May 10, 2001 4:57 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] DS1994 on T-238 problem
>
>   I suppose this is really for Will, more than anyone else. :-)
>
>   I've installed a ds1994 on the prototype area on my T-238. After
> powering up, the
> t-238 sees it fine. It reads the GMT time programmed into the button
> correctly.
> However, the t-238 does not seem to be saving the local time offset across
> reboots -
> whenever I restart, the local time is reset to 23.
>
>   Any ideas? Is this a bug? Or does the software not actually save the
> local
> time offset?
>
>   I'm using vers. 1.12.3 of the software.
>
> Thanks!
>   - Rich
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] RE: DS1994 on T-238 problem

From: mulveyr@iname.com
Date: Fri, 11 May 2001 11:27:07 -0400 (EDT)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12226-2001.05.11-10.46.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Will,
>
> I just received a DS1994 clock and mounting clip but have no info on
> how to set the time in it initially with a PC. I assume that it can
> be connected to a PC with the RS232 adapter that came with the weather
> station but I need to find the software to to the programming. When
> I downloaded the data sheet for the DS1994 it didn't address the way
> to program it. Can you advise what the software is called and where
> it can be downloaded? Or, does the DS1994 come from ibutton already
> programmed correctly for operation with the T-238?
> --
> Kenneth A. Brown, WFO OUN, Norman OK
> Ken.Brown@ounnws.noaa.gov
>

You need to get the TMEX software from http://www.ibutton.com/software/tmex/index.html

Once you've hooked up the ds1994 to the PC and installed the software, you can use
the viewer utility to set the time.

Make sure that you check the "Start Oscillator" checkbox to start the clock, and do NOT
check any of the "Write Protect" checkboxes, or you'll never to able to adjust the
time again.

Also, the clip that I just got has incorrect polarity markings. The upper
contact is ground, *not* data.

Did your clip also come in a 24"x6"x4" box? I was incredibly amused. Until I
opened it, I couldn't figure out what I possibly could have ordered that
took that much space. They sent the ds1994 in an envelope, and the clip
in a tank-proof box 100x bigger than it needed to be. Go figure.

- Rich

>
> William Beals wrote:
> >
> > Rich:
> >
> > Yup, for me, but the answer is clearly for all:
> >
> > What you need to do is go through the time setting process once more after
> > installing the DS1994. Once I see a DS1994, I know to figure out the
> > GMT-Local offset and store it in memory for future use. From then on you
> > should be OK. Since it was not a feature from the get-go, I have to assume
> > nothing until I see the right combination of events.
> >
> > BTW: I do nothing for daylight savings time, so when that comes (or goes),
> > you will need to make adjustments as needed.
> >
> > will
> >
> > -----Original Message-----
> > From: bounce-wxsig-21132@lists.tapr.org
> > [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of mulveyr@iname.com
> > Sent: Thursday, May 10, 2001 4:57 PM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] DS1994 on T-238 problem
> >
> >   I suppose this is really for Will, more than anyone else. :-)
> >
> >   I've installed a ds1994 on the prototype area on my T-238. After
> > powering up, the
> > t-238 sees it fine. It reads the GMT time programmed into the button
> > correctly.
> > However, the t-238 does not seem to be saving the local time offset across
> > reboots -
> > whenever I restart, the local time is reset to 23.
> >
> >   Any ideas? Is this a bug? Or does the software not actually save the
> > local
> > time offset?

> >
> >   I'm using vers. 1.12.3 of the software.
> >
> > Thanks!
> >   - Rich
> >
>
> ---
> You are currently subscribed to wxsig as: mulveyr@iname.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] RE: DS1994 on T-238 problem

From: Ken Brown <Ken.Brown@ounnws.noaa.gov>
Date: Fri, 11 May 2001 16:08:11 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12229-2001.05.11-11.26.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich,

Thanks for the help. I'll get the TMEX software to get me started.

My shipment was just as you described. When I saw the size of the
box and envelope I was sure they must have shipped software and
documentation with the ibutton and clip. At first glance it looks
like the ibutton fits into the clip with the flange side up (ground)
but the clip is made for a lithium battery where the flange is +.

--

Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

mulveyr@iname.com wrote:
>
>
> You need to get the TMEX software from > http://www.ibutton.com/software/tmex/index.html
>
> Once you've hooked up the ds1994 to the PC and installed the software,
> you can use the viewer utility to set the time.
>
> Make sure that you check the "Start Oscillator" checkbox to start the
> clock, and do NOT check any of the "Write Protect" checkboxes, or
> you'll never to able to adjust the > time again.
>
> Also, the clip that I just got has incorrect polarity markings. The
> upper contact is ground, *not* data.
>
> Did your clip also come in a 24"x6"x4" box? I was incredibly amused.
> Until I opened it, I couldn't figure out what I possibly could have
> ordered that took that much space. They sent the ds1994 in an envelope,
> and the clip in a tank-proof box 100x bigger than it needed to be.
> Go figure.
>
> - Rich

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] RE: DS1994 on T-238 problem

From: "William Beals" <will@beals5.com>
Date: Fri, 11 May 2001 17:56:26 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12271-2001.05.11-19.13.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

Let me look into this further...

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Richard Mulvey
Sent: Thursday, May 10, 2001 9:31 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: DS1994 on T-238 problem

Actually, I had gone through the process - for example, I just went into the menu option to select the date/time, used Select to move through the GMT time (05/11/01 03:26) (essentially just skipping through the fields with Select), and then selected the local hour (23). After confirming the hour, restarted the T-238, and when I went to the Display screen, it showed the correct GMT time, but the local time was shown as 04:27, not 23:27.

- Rich

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11. [wxsig] RE: DS1994 on T-238 problem

From: Ken Brown <n5kuk@ounnws.noaa.gov>
Date: Sat, 12 May 2001 01:56:52 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12291-2001.05.11-21.15.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

With the info from Rich I set the clock on the DS1994 to the correct UTC time and installed it in the T-238. Upon power up the DS1994 was recognized. I then went to the time set menu and stepped through the correct zulu time which was 01:36 then set the local time which was 20:36.
Upon starting the display everything was OK but on power down/power up the
local time changes to the zulu time plus one hour 02:36. This happened after several attempts of power cycle, set clock, power cycle. This was with 1.12.2 software. With 1.12.3 the local time reset to the same as zulu time.
--
Ken Brown, NWS Forecast Office, Norman OK
ken.brown@ounnws.noaa.gov

William Beals wrote:
>
> Rich:
>
> Yup, for me, but the answer is clearly for all:
>
> What you need to do is go through the time setting process once more after
> installing the DS1994. Once I see a DS1994, I know to figure out the
> GMT-Local offset and store it in memory for future use. From then on you
> should be OK. Since it was not a feature from the get-go, I have to assume
> nothing until I see the right combination of events.
>
> BTW: I do nothing for daylight savings time, so when that comes (or goes),
> you will need to make adjustments as needed.
>
> will
>

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] GMT-Local offset problem.

From: "William Beals" <will@beals5.com>
Date: Fri, 11 May 2001 20:24:55 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12298-2001.05.11-21.42.50--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ken, Rich, and all:

Thanks for pointing this out. I poked around this evening and found a bug I

introduced around 1.12.1 whereby I computed the GMT-Local offset, but then
promptly forgot to write it back to flash--oops. In my testing I didn't try
to twiddle the local offset, so didn't catch that I couldn't change it.

I have one other "feature" I'd like to investigate a bit to see if I can
take care of it too and will hopefully have a 1.12.4 release that will
correct this bug.

will

==========
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(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

13. [wxsig] will vendors be selling 1-wire sensors at HamVention?

From: "John Szkudlarek" <ka8fge@dnaco.net>
Date: Sat, 12 May 2001 7:11:4
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12330-2001.05.12-07.29.21--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

hello all,
will vendors be selling the 1-wire sensors at HamVention?
then I could pickup a T-238 kit and the sensors in one place.

thanks, John.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] Re: GMT-Local offset problem.

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sat, 12 May 2001 09:01:34 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12366-2001.05.12-10.20.07--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Another thing that we should consider changing in the next software revision
is the reporting of humidity. The format for relative humidity uses two
decimal numbers or 100 different values, 00 to 99. But, theoretically,
relative humidity can have 101 different values, 00% to 100% (although 00%
is unlikely).

>From what I've seen with the APRSWXNET data, many weather stations give 00
when there is no data, i.e. no humidity transducer. Because of this, we
changed APRSWXNET to treat 00 as NODATA in the humidity field. So, this
leaves 01 to 99 as the reporting range for relative humidity.

I suggest that we assign 100% relative humidity (which can occur and is as
frequent as fog) as 99. Also, I suggest that we treat anything above 100%
(supersaturation, which can happen, but is rare) as 99. This introduces
some error, but it is less than the 4% accuracy of the Dallas Semiconductor
humidity sensor that we use. I don't see any other way to do it considering
that we are stuck with a two decimal digit format for relative humidity.
Maybe someone else has some other ideas.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: William Beals <will@beals5.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Friday, May 11, 2001 8:24 PM
Subject: [wxsig] GMT-Local offset problem.

> Ken, Rich, and all:
>
> Thanks for pointing this out. I poked around this evening and found a bug
I
> introduced around 1.12.1 whereby I computed the GMT-Local offset, but then
> promptly forgot to write it back to flash--oops. In my testing I didn't
try
> to twiddle the local offset, so didn't catch that I couldn't change it.
>
> I have one other "feature" I'd like to investigate a bit to see if I can
> take care of it too and will hopefully have a 1.12.4 release that will
> correct this bug.
>
> will
>
> ==
> This message sent using 100% recycled electrons.
> (minimum 30% post-consumer)
> ==
> Will Beals
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] RE: will vendors be selling 1-wire sensors at HamVention?

From: "Steven R. Bible" <n7hpr@tapr.org>
Date: Sat, 12 May 2001 08:51:53 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12369-2001.05.12-11.09.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello John,

I do not know if any vendors will be selling the Weather Station portion but
TAPR will have the T-238 kit available at the TAPR Booth.

- Steve, N7HPR
  (n7hpr@tapr.org)

-----Original Message-----
From: bounce-wxsig-15059@lists.tapr.org
[mailto:bounce-wxsig-15059@lists.tapr.org]On Behalf Of John Szkudlarek
Sent: Saturday, May 12, 2001 12:00 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] will vendors be selling 1-wire sensors at HamVention?

hello all,
will vendors be selling the 1-wire sensors at HamVention?
then I could pickup a T-238 kit and the sensors in one place.

thanks, John.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] Re: GMT-Local offset problem.

From: "William Beals" <will@beals5.com>
Date: Sat, 12 May 2001 13:36:19 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>

Message-ID: <LYR15067-12388-2001.05.12-14.53.20--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ:

Will do. If by some bizarre reason I get a reading of 0% I assume it is an error and do not report it, I just show "h.." like I do for an error. I think I do still pass 100% as "h00", but will add that to the list of things to fix.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Russ Chadwick
Sent: Saturday, May 12, 2001 9:02 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: GMT-Local offset problem.

Another thing that we should consider changing in the next software revision is the reporting of humidity. The format for relative humidity uses two decimal numbers or 100 different values, 00 to 99. But, theoretically, relative humidity can have 101 different values, 00% to 100% (although 00% is unlikely).

>From what I've seen with the APRSWXNET data, many weather stations give 00 when there is no data, i.e. no humidity transducer. Because of this, we changed APRSWXNET to treat 00 as NODATA in the humidity field. So, this leaves 01 to 99 as the reporting range for relative humidity.

I suggest that we assign 100% relative humidity (which can occur and is as frequent as fog) as 99. Also, I suggest that we treat anything above 100% (supersaturation, which can happen, but is rare) as 99. This introduces some error, but it is less than the 4% accuracy of the Dallas Semiconductor humidity sensor that we use. I don't see any other way to do it considering that we are stuck with a two decimal digit format for relative humidity. Maybe someone else has some other ideas.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: William Beals <will@beals5.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Friday, May 11, 2001 8:24 PM
Subject: [wxsig] GMT-Local offset problem.

> Ken, Rich, and all:
>
> Thanks for pointing this out. I poked around this evening and found a bug
I
> introduced around 1.12.1 whereby I computed the GMT-Local offset, but then
> promptly forgot to write it back to flash--oops. In my testing I didn't
try
> to twiddle the local offset, so didn't catch that I couldn't change it.
>
> I have one other "feature" I'd like to investigate a bit to see if I can
> take care of it too and will hopefully have a 1.12.4 release that will
> correct this bug.
>
> will
>
> ==
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> 303-755-0293
> will@beals5.com
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17. [wxsig] Sensors Magazine Article

From: "Clay Bartholow" <w0led@arrl.net>
Date: Mon, 14 May 2001 7:35:20
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12619-2001.05.14-07.53.40--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi all!

Just a note to say that the May 2001 issue of Sensors has an article on
1-wire addressable digital instruments (ADI) by Dan Awtrey. It's a recap
of all the basic issues related to the sensors that make up a 1-wire WX
Station and related...

Also viewable online at
http://www.sensorsmag.com/articles/0501/34/index.htm

73,

Clay
W0LED

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18. [wxsig] Re: will vendors be selling 1-wire sensors at HamVention?

From: "Aitor Arrieta" <aag@aag.com.mx>
Date: Mon, 14 May 2001 09:22:51 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-12642-2001.05.14-09.49.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Sorry, but not this year. :-(
You can order yours to infoaag@aag.com.mx or visit www.aag.com.mx
Regards
Aitor Arrieta
----- Original Message -----
From: "John Szkudlarek" <ka8fge@dnaco.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Saturday, May 12, 2001 12:00 AM
Subject: [wxsig] will vendors be selling 1-wire sensors at HamVention?

> hello all,
> will vendors be selling the 1-wire sensors at HamVention?
> then I could pickup a T-238 kit and the sensors in one place.
>
> thanks, John.
>
> ---
> You are currently subscribed to wxsig as: aag@aag.com.mx
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
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19. [wxsig] 1.12.4 release soon

From: "William Beals" <will@beals5.com>
Date: Sun, 20 May 2001 22:03:03 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-13714-2001.05.20-23.19.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

I should have the 1.12.4 release out shortly. It appears to work and I'm
going to run it for 24 hours or so before posting it. It fixes one
significant bug (not saving the local time offset), adds several of Russ's
requests on making humidity readings more friendly, and adds (sorry forgot
who) a request to use the humidity gauges temperature sensor as the main
sensor.

The changes are as follows:

*   Fixed bug where local time offset didn't get saved in Flash
*   Now don't send computer humidity data if 0% (has to be an error)
*   Don't send "hxx" in TNC mode if no data in the last 5 minutes.
*   Limit Display readings to 1-100% humidity
*   Limit TNC readings to 1-99% humidity
*   User has option to have humidity temperature reading as "main" reading.

Barring trouble, it should be up Monday evening. I go off on a trip for a
few days starting Tuesday.

will

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15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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20. [wxsig] 1.12.4 posted

From: "William Beals" <will@beals5.com>
Date: Mon, 21 May 2001 20:25:04 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-13998-2001.05.21-21.42.06--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

The release discussed in yesterdays email has been posted.
I'm off for a few days on a trip, so response may be slow.

will

==========
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(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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21. [wxsig] PIC code for Dallas 1-wire devices

From: "Antonio Sergio Sena" <asena@bigfoot.com>
Date: Tue, 22 May 2001 04:41:23 +0100
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14002-2001.05.21-23.00.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi!

I am looking for some code to use the 1-wire Dallas devices. I am not looking for the iButtom,
but yes for the others.

I hope i made myself clear.
Thanks

****
Antonio Sergio Sena CT2GPW
asena@bigfoot.com
+ 44.785.5917270
+ 44.131.4664365

BEng Electrical & Electronic Engineering
Heriot-Watt University - Edinburgh

Homepage: www.qsl.net/ct2gpw
****

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22. [wxsig] RE: PIC code for Dallas 1-wire devices

From: "William Beals" <will@beals5.com>
Date: Tue, 22 May 2001 06:29:33 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14046-2001.05.22-07.47.52--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Antonio:

The T238 project has the source code published at http://www.beals5.com/wx
(select downloads, then the zip file). Alas it is not for PIC, it is for
the Motorola 6808. Due to the size of the code, I needed a uP larger than
what the PICs offered at the the time.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Antonio Sergio
Sena
Sent: Monday, May 21, 2001 9:41 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] PIC code for Dallas 1-wire devices

Hi!

I am looking for some code to use the 1-wire Dallas devices. I am not
looking for the iButtom,
but yes for the others.

I hope i made myself clear.
Thanks

****
Antonio Sergio Sena CT2GPW
asena@bigfoot.com
+ 44.785.5917270
+ 44.131.4664365

BEng Electrical & Electronic Engineering
Heriot-Watt University - Edinburgh

Homepage: www.qsl.net/ct2gpw
****

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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

23. [wxsig] RE: PIC code for Dallas 1-wire devices

From: "Antonio Sergio Sena" <asena@bigfoot.com>
Date: Tue, 22 May 2001 13:36:01 +0100
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14047-2001.05.22-07.54.51--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

altough i havent said anything, i've been following the T238 since the first day, your problems,
your victories !!
It's been quite thrilling !!
But... since i want to make small sensor units with the 12C's and the new 18F02, i need some
PIC code. I dont want to reinvent the wheel.... if you know what i mean.... :-)

Thanks though !!

Antonio Sergio Sena

> Antonio:
>
> The T238 project has the source code published at http://www.beals5.com/wx
> (select downloads, then the zip file). Alas it is not for PIC, it is for
> the Motorola 6808. Due to the size of the code, I needed a uP larger than
> what the PICs offered at the the time.
>
> will
>

****
Antonio Sergio Sena   CT2GPW
asena@bigfoot.com
+ 44.785.5917270
+ 44.131.4664365

BEng Electrical & Electronic Engineering
Heriot-Watt University - Edinburgh

Homepage: www.qsl.net/ct2gpw
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24. [wxsig] RE: PIC code for Dallas 1-wire devices

From: "Clay Bartholow" <w0led@arrl.net>
Date: Tue, 22 May 2001 11:47:34
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14129-2001.05.22-12.06.42--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm sure there are web resources for code examples but the first thing that
comes to mind is "Serial PIC'n" by Roger L. Stephens. Here's the URL at
Amazon.com if you're interested:

http://www.amazon.com/exec/obidos/ASIN/0965416224/qid%3D990549968/104-3026385-6030367

73,

Clay B
W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

25. [wxsig] RE: PIC code for Dallas 1-wire devices

From: "Antonio Sergio Sena" <asena@bigfoot.com>
Date: Tue, 22 May 2001 19:49:44 +0100
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14146-2001.05.22-14.08.40--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I've been in the Square One web site, they have there downloadable code.
I am going to take a look at that code, to see if i can decod it without comments...
Thanks tough!

> I'm sure there are web resources for code examples but the first thing that
> comes to mind is "Serial PIC'n" by Roger L. Stephens. Here's the URL at
> Amazon.com if you're interested:
>
> http://www.amazon.com/exec/obidos/ASIN/0965416224/qid%3D990549968/104-3026385-6030367
>
> 73,
>
> Clay B
> W0LED
>

****
Antonio Sergio Sena   CT2GPW
asena@bigfoot.com
+ 44.785.5917270
+ 44.131.4664365

BEng Electrical & Electronic Engineering
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Homepage: www.qsl.net/ct2gpw
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26. [wxsig] RE: PIC code for Dallas 1-wire devices

From: "William Beals" <will@beals5.com>
Date: Wed, 23 May 2001 00:23:48 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14266-2001.05.23-01.53.08--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Antonio:

OK, good luck. I know about not wanting to re-invent the wheel. I have
seen ads for new basic stamps that support 1-wire commands now. They are
PICs, but probably not what you need.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Antonio Sergio
Sena
Sent: Tuesday, May 22, 2001 6:36 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: PIC code for Dallas 1-wire devices

Will,

altough i havent said anything, i've been following the T238 since the first
day, your problems,
your victories !!
It's been quite thrilling !!
But... since i want to make small sensor units with the 12C's and the new
18F02, i need some
PIC code. I dont want to reinvent the wheel.... if you know what i mean....
:-)

Thanks though !!

Antonio Sergio Sena

> Antonio:
>
> The T238 project has the source code published at http://www.beals5.com/wx
> (select downloads, then the zip file). Alas it is not for PIC, it is for
> the Motorola 6808. Due to the size of the code, I needed a uP larger than
> what the PICs offered at the the time.
>
> will
>

****
Antonio Sergio Sena   CT2GPW
asena@bigfoot.com
+ 44.785.5917270
+ 44.131.4664365

BEng Electrical & Electronic Engineering
Heriot-Watt University - Edinburgh

Homepage: www.qsl.net/ct2gpw
****

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27. [wxsig] Re: 1.12.4 release soon

From: "Brent L. Shaw" <shaw@fsl.noaa.gov>
Date: Wed, 23 May 2001 13:14:09 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14382-2001.05.23-14.34.31--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I downloaded the new version last night, and also got motivated to
finally hook up a TNC and radio (on an inside antenna for now). I am
very pleased.

Will, in case you get bored, here is my wish list for future
enhancements:

1. The ability to send data to both ports, so that data can be logged
by a PC while data is being sent to the TNC. Prior to the T238, I used
Arne's Wserver software, which produced a very nice log file at a
user-selectable interval. I miss having the capability to import these
logs into Excel to analyze "climatological" data from my house.

2. The ability to display and transmit dewpoint instead of or in
addition to relative humidity. I haven't looked at the APRS spec to see

if there is a protocol for this, but operational weather observations
report dewpoint, and our LAPS analysis is geared for this. I am not yet
convinced that LAPS is using the RH reports at all. Besides, I never
have liked using RH, since it is not conservative the way dewpoint is
(hence all of the discussions about "why is my RH high in the morning
and low in the afternoon"). I can provide formulae for you to use if
need be. This would also get around the 00-99 valid range supported by
APRS for RH.

3. The ability to command the TNC (e.g., to change configuration
settings, etc.) via a serial cable between the PC and T238 PC port while
the TNC is hooked up to the T238 TNC port. This would eliminate the
plugging/unplugging of the TNC when making adjustments. This kind of
goes hand in hand with #1.

I don't even know if these things are all even possible with the T238
architecture, but I think these would be awesome enhancements. Thanks
for all of your hard work!

73,
Brent/KB0URX

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28. [wxsig] RE: PIC code for Dallas 1-wire devices

From: "Antonio Sergio Sena" <asena@bigfoot.com>
Date: Wed, 23 May 2001 20:21:47 +0100
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14390-2001.05.23-15.05.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

in fact what i want, is to implement small hand (also wireless) modules, that you can take anywhere,
each one having its own serial code. So
you can have, for example in a green house, several humidity and temperature readings. Just an example.
With wireless you can do anything,
though you dont need exactly 1-wire to do that...
Just a tought... enourmous aplications !! :-)

Antonio Sergio Sena
ct2gpw

> Antonio:
>
> OK, good luck. I know about not wanting to re-invent the wheel. I have
> seen ads for new basic stamps that support 1-wire commands now. They are
> PICs, but probably not what you need.
>
> will
>

****
Antonio Sergio Sena   CT2GPW
asena@bigfoot.com
+ 44.785.5917270
+ 44.131.4664365

BEng Electrical & Electronic Engineering
Heriot-Watt University - Edinburgh

Homepage: www.qsl.net/ct2gpw
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29. [wxsig] Re: 1.12.4 release soon

From: "William Beals" <will@beals5.com>
Date: Wed, 23 May 2001 21:31:02 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14441-2001.05.23-22.51.55--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Brent:

Thanks for the suggestions. On your suggestions, the toughest is dual port stuff as the 6808 has only one UART. If your intent is just to monitor data, you can hook up both the TNC and computer as long as you physically disconnect the computers transmit line to the T238. This way T238 data can go to both the TNC and computer and you can avoid contention on the TNC and computer for the return channel.

The APRS spec does humidity, not dewpoint. In general I agree with you that dewpoint seems much more useful. Please do send the formula. I can't comit as right now I implement all the math in in assembly in fixed-point arithmatic, so it gets ugly. It is a lot of effort to implement in assembly.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Brent L. Shaw
Sent: Wednesday, May 23, 2001 1:14 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 1.12.4 release soon

I downloaded the new version last night, and also got motivated to finally hook up a TNC and radio (on an inside antenna for now). I am very pleased.

Will, in case you get bored, here is my wish list for future enhancements:

1. The ability to send data to both ports, so that data can be logged by a PC while data is being sent to the TNC. Prior to the T238, I used Arne's Wserver software, which produced a very nice log file at a user-selectable interval. I miss having the capability to import these logs into Excel to analyze "climatological" data from my house.

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I don't even know if these things are all even possible with the T238 architecture, but I think these would be awesome enhancements. Thanks for all of your hard work!

73,
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30. [wxsig] Re: 1.12.4 release soon

From: Ken Brown <Ken.Brown@ounnws.noaa.gov>
Date: Thu, 24 May 2001 13:09:49 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14512-2001.05.24-08.28.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

The 1.12.4 release seems to be working as advertised.

Now, my comments for future upgrades...

I have looked at the T238 with an eye toward a remote solar powered
weather station. I found that by removing the backlight resistor
for the LCD the power drops from more than 200 ma to about 45 ma.
Unplugging the display (not needed for unattended operation) drops
a few more ma. However, the standby power for my TNCs is 250-300 ma
and the radio draws about 100 ma. This adds up to a battery killer
in solar power operation.

My suggestion, if it could be done, is to use one of the spare output
lines from the cpu as a switch that would go high 5 or 10 seconds
before a transmission to power up the TNC/radio via a relay. A
bit of external logic could be used to keep the relay latched on
until the data packet has cleared the tnc in case the channel was
busy. This could drop the TNC/radio power drain to 10 or 15 seconds
every five minutes which would greatly extend the battery charge life.

I too would like to see dew point but I haven't seen it in the APRS
spec. I also think it would have to wait until pressure data is
available for the conversion to work accurately.
--

Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

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31. [wxsig] Re: 1.12.4 release soon

From: "William Beals" <will@beals5.com>
Date: Thu, 24 May 2001 08:04:36 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14528-2001.05.24-09.28.07--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ken:

Glad to see that the release is working. I get nervous sending out stuff as
I know I can't test all the combinations and permutations.

The LCD should be entirely optional. By luck (not design), the only
critical feedback line from the LCD has a pullup resistor to ensure that the
firmware should never get stuck.

Interesting idea of another line to control TNC and radio power. Had not
thought of that. While intented for solar power use, I have never done the
design yet, so I have not worked out the details. There is a remote place
in the mountains here in Colorado that I'd like to have a weather station,
so this is something I've just started thinking about. My only known issues
with powering up and down the TNC is that there are several initialization
commands that will likely be needed each time the power is applied. Which
TNC are you using? I have some KPC3+'s which I thought were amazingly power
miserly. They claim they can run from a 9V battery (although I do no know
how long)

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
Sent: Thursday, May 24, 2001 7:10 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 1.12.4 release soon

Will,

The 1.12.4 release seems to be working as advertised.

Now, my comments for future upgrades...

I have looked at the T238 with an eye toward a remote solar powered
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Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

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32. [wxsig] Re: 1.12.4 release soon

From: Ken Brown <Ken.Brown@ounnws.noaa.gov>
Date: Thu, 24 May 2001 14:35:19 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14536-2001.05.24-09.54.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

I have been fooling around with MFJ-1270 and PacComm Tiny-2 TNCs and
they are both power hungry. An advantage to the MFJ is that it is a
direct TAPR offspring and the TAPR eprom will work in it. The code
is available so the eprom can be burned to include the desired start
up conditions (except maybe converse mode, I'll have to try that).

Something else that I'm going to try this weekend is using a TM-1+
Tigertronics tracker module in telemetry mode. The TM-1+ is like a
PIC-E but has several modes of operation available. Since it uses a
pic the power drain is much lower than a full TNC. I'll let you know
how that works out with the T238.
--
Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

William Beals wrote:
>
> Ken:
>
> Glad to see that the release is working. I get nervous sending out stuff as
> I know I can't test all the combinations and permutations.
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> will
>
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> I too would like to see dew point but I haven't seen it in the APRS
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> Kenneth A. Brown, WFO OUN, Norman OK
> Ken.Brown@ounnws.noaa.gov
>

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33. [wxsig] Re: 1.12.4 release soon

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Thu, 24 May 2001 17:52:09 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14584-2001.05.24-17.15.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

KPC3+ draws barely 15 mils ....

> -----Original Message-----
> From: bounce-wxsig-15705@lists.tapr.org
> [mailto:bounce-wxsig-15705@lists.tapr.org]On Behalf Of William Beals
> Sent: Thursday, May 24, 2001 10:05 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: 1.12.4 release soon
>
>
> Ken:
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> miserly. They claim they can run from a 9V battery (although
> I do no know
> how long)
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
> Sent: Thursday, May 24, 2001 7:10 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: 1.12.4 release soon
>
>
>
> Will,
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> Ken.Brown@ounnws.noaa.gov
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>
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34. [wxsig] Re: 1.12.4 release soon

From: "William Beals" <will@beals5.com>
Date: Fri, 25 May 2001 22:22:12 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14869-2001.05.26-10.41.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ken:

I went ahead and added your power control to the task list. Not sure where
it will bubble up at this point though. Power control is pretty easy.
Re-initializing the TNC would be a major change to the code. Do you think a
power control line would be enough for your needs?

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

35. [wxsig] FW: Re: 1.12.4 release soon

From: "William Beals" <will@beals5.com>
Date: Sat, 26 May 2001 09:24:03 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14871-2001.05.26-10.43.17--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ken:

I went ahead and added your power control to the task list. Not sure where
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Sent: Thursday, May 24, 2001 7:10 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 1.12.4 release soon

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Your message: (INMAIL-ID:927)

Return-Path: <will@beals5.com>
Received: from spdmraac.compuserve.com ([149.174.206.154]) by lists.tapr.org
with SMTP (Lyris Server version 3.0); Sat, 26 May 2001 10:41:20 -0500
Received: (from mailgate@localhost)
        by spdmraac.compuserve.com (8.9.3/8.9.3/SUN-REL-1.3) id LAA20036
        for wxsig@lists.tapr.org; Sat, 26 May 2001 11:22:28 -0400 (EDT)
Sender: will@beals5.com
Received: from n5170laptop (dal-tgn-tlx-vty14.as.wcom.net [216.192.238.14])
        by spdmraac.compuserve.com (8.9.3/8.9.3/SUN-REL-1.3) with SMTP id LAA19995
        for <wxsig@lists.tapr.org>; Sat, 26 May 2001 11:22:22 -0400 (EDT)
Reply-To: <will@beals5.com>
From: "William Beals" <will@beals5.com>
To: "'TAPR WX Special Interest Group'" <wxsig@lists.tapr.org>
Subject: RE: [wxsig] Re: 1.12.4 release soon
Date: Fri, 25 May 2001 22:22:12 -0600
Message-ID: <000101c0e5f7$a86a5e80$0eeec0d8@n5170laptop>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-Mailer: Microsoft Outlook CWS, Build 9.0.2416 (9.0.2911.0)
Importance: Normal
In-Reply-To:
<LYR21132-14512-2001.05.24-08.28.37--will#beals5.com@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400

Ken:

I went ahead and added your power control to the task list. Not sure where
it will bubble up at this point though. Power control is pretty easy.
Re-initializing the TNC would be a major change to the code. Do you think a
power control line would be enough for your needs?

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
Sent: Thursday, May 24, 2001 7:10 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 1.12.4 release soon

Will,

The 1.12.4 release seems to be working as advertised.

Now, my comments for future upgrades...

I have looked at the T238 with an eye toward a remote solar powered
weather station. I found that by removing the backlight resistor
for the LCD the power drops from more than 200 ma to about 45 ma.
Unplugging the display (not needed for unattended operation) drops
a few more ma. However, the standby power for my TNCs is 250-300 ma
and the radio draws about 100 ma. This adds up to a battery killer
in solar power operation.

My suggestion, if it could be done, is to use one of the spare output
lines from the cpu as a switch that would go high 5 or 10 seconds
before a transmission to power up the TNC/radio via a relay. A
bit of external logic could be used to keep the relay latched on
until the data packet has cleared the tnc in case the channel was
busy. This could drop the TNC/radio power drain to 10 or 15 seconds
every five minutes which would greatly extend the battery charge life.

I too would like to see dew point but I haven't seen it in the APRS
spec. I also think it would have to wait until pressure data is
available for the conversion to work accurately.
--

Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
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36. [wxsig] Re: 1.12.4 release soon

From: Ken Brown <n5kuk@ounnws.noaa.gov>
Date: Sat, 26 May 2001 20:05:43 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14901-2001.05.26-15.25.47--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

I think the power control pin would do it. Your comments ant those of
someone else caused me to check out the specifications on the KPC3+ and
I saw that it indeed has very low power consumption so I really just
need now to control the radio.

I have been experimenting today (Saturday) with a Tigertronics TM-1+
in the telemetry mode and it looks like it will work fine without the
TNC initialization string and it is also very low power.
--
Ken Brown, NWS Forecast Office, Norman OK
ken.brown@ounnws.noaa.gov

William Beals wrote:
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> it will bubble up at this point though. Power control is pretty easy.
> Re-initializing the TNC would be a major change to the code. Do you think a
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> will
>
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> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
> Sent: Thursday, May 24, 2001 7:10 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: 1.12.4 release soon
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> I too would like to see dew point but I haven't seen it in the APRS
> spec. I also think it would have to wait until pressure data is
> available for the conversion to work accurately.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

37. [wxsig] Re: 1.12.4 release soon

From: "William Beals" <will@beals5.com>
Date: Sat, 26 May 2001 18:17:42 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14929-2001.05.26-19.59.31--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ken:

OK on just needing a control pin. That is pretty easy to add. I had
orignially been thinking of leaving the radio on which is the way most HTs
expect to be operated, but for a regular radio, switching power is a good
idea.

I am curious what the Tigertronics TM-1+ is. I'll look it up after sending
this email.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
Sent: Saturday, May 26, 2001 2:06 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 1.12.4 release soon

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someone else caused me to check out the specifications on the KPC3+ and
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ken.brown@ounnws.noaa.gov

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> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
> Sent: Thursday, May 24, 2001 7:10 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: 1.12.4 release soon
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> I too would like to see dew point but I haven't seen it in the APRS
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> available for the conversion to work accurately.

You are currently subscribed to wxsig as: will@beals5.com
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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

38. [wxsig] Re: 1.12.4 release soon

From: Ken Brown <n5kuk@ounnws.noaa.gov>
Date: Sun, 27 May 2001 03:03:09 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-14942-2001.05.26-22.23.04--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

The web site for the Tigertroncis is http://www.gpstracker.com
I have been using a couple of them for tracker operations but they
have another mode for telemetry which just takes a line of data that
ends with a carriage return and sends it as a APRS packet. It is like
a PIC-E. There are several modes of operation including APRS tracking
mode, telemetry mode, alarm mode, and GPS mode.

I have programmed a TM-1+ for telemetry mode and connected it to a
T-238. The T238 software is set for TNC-LTP mode so there is no
need for a initialization string. The callsign, SSID, path, TXD, and
tail time are programmed into the TM-1+ and it encodes the packets
from the raw data input, in this case it is the tnc weather data from

the T238.

As I mentioned I have been fooling around with it today and it seems
to work fine. I have used it with a Icom HT and also with a dedicated
Tigertronics data radio.

The combination of the T238, TM-1+ and the data radio could make a
very compact dedicated package. I had considered the MFJ data radio
but it does not have a squelch circuit so it will not work with the
TM-1+.

Thanks for your consideration. Those of us that have to do our
programming with solder and wire wrap greatly appreciate all that
you have done and are doing with the project.
--
Ken Brown, NWS Forecast Office, Norman OK
ken.brown@ounnws.noaa.gov

William Beals wrote:
>
> Ken:
>
> OK on just needing a control pin. That is pretty easy to add. I had
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> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
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> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: 1.12.4 release soon
>
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> > From: bounce-wxsig-21132@lists.tapr.org
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> > I too would like to see dew point but I haven't seen it in the APRS
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> > available for the conversion to work accurately.

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

39. [wxsig] Dewpoint Function

From: "Brent L. Shaw" <shaw@fsl.noaa.gov>
Date: Wed, 30 May 2001 07:44:28 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-15597-2001.05.30-09.05.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yes, I just discovered what you mentioned...that the APRS spec does not
include a dewpoint field. We should try and suggest this be added.

Here is the formula to compute dewpoint from relative humidity (written
in Fortran 90). It would be pretty ugly to implement this in fixed
point math, so I won't look for it soon! BTW, there is no pressure
dependancy in this formula, and any error due to pressure differences
would be much smaller (at least for the range of elevations where people
live!) than the instrument accuracy of +/-4% RH. For the function
below, everything is in MKS units and RH is specified as a fraction (0.
<= RH <= 1.0). Note that the MAX function could be left out if you
ensure you always pass in an RH > 0. (BTW, I am not aware of anywhere on
earth that the RH is ever 0., there is always some trace amount of water
vapor even in the driest areas). The ALOG function is the fortran
function for computing the natural logarithm.

```
FUNCTION dewpt(t,rh)
  REAL, PARAMETER   :: rv = 461.5   ! Gas constant for water vapor in J
deg{-1} kg{-1}
  REAL, PARAMETER   :: lv = 2.500E6 ! Latent heat of vaporization in J
kg{-1}
  REAL, PARAMETER   :: rvolv = rv/lv
  REAL, INTENT(IN)  :: t    ! Air temperature in deg K
  REAL, INTENT(IN)  :: rh   ! Relative humidity as a fraction (0.->1.)
  REAL              :: dewpt

  dewpt = t / (( -rvolv * ALOG(MAX(rh,0.01)) * t) + 1.0 )
END FUNCTION dewpt
```

Thanks for all of your work.

73,
Brent, KB0URX

William Beals wrote:

> The APRS spec does humidity, not dewpoint. In general I agree with you that
> dewpoint seems much more useful. Please do send the formula. I can't comit
> as right now I implement all the math in in assembly in fixed-point
> arithmatic, so it gets ugly. It is a lot of effort to implement in
> assembly.

--
****
* Brent L. Shaw   Title : Research Associate   *
* NOAA/OAR/FSL/FRD R/FS1   Affil. : CIRA/CSU   *

```
* 325 Broadway                 Phone  : (303) 497-6100           *
* Boulder, CO  80305-3328      E-Mail : shaw@fsl.noaa.gov         *
* http://laps.fsl.noaa.gov     Room   : DSRC - 2B511              *
*****************************************************************

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

40. [wxsig] RE: Dewpoint Function

From: "William Beals" <will@beals5.com>
Date: Wed, 30 May 2001 21:52:41 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-15734-2001.05.30-23.09.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Brent:

Ugh! That is a nasty formula! I'll keep it for reference, but computing natural logs and such seem awful nasty. It is nice to see FORTRAN, it has been a while. I took the long route from BASIC to FORTRAN to Pascal, and finally C. I actually bought a FORTRAN compiler a long time ago! It is still kicking around somewhere.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Brent L. Shaw
Sent: Wednesday, May 30, 2001 7:44 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Dewpoint Function

Yes, I just discovered what you mentioned...that the APRS spec does not include a dewpoint field. We should try and suggest this be added.

Here is the formula to compute dewpoint from relative humidity (written in Fortran 90). It would be pretty ugly to implement this in fixed point math, so I won't look for it soon! BTW, there is no pressure dependancy in this formula, and any error due to pressure differences would be much smaller (at least for the range of elevations where people live!) than the instrument accuracy of +/-4% RH. For the function below, everything is in MKS units and RH is specified as a fraction (0. <= RH <= 1.0). Note that the MAX function could be left out if you ensure you always pass in an RH > 0. (BTW, I am not aware of anywhere on earth that the RH is ever 0., there is always some trace amount of water vapor even in the driest areas). The ALOG function is the fortran function for computing the natural logarithm.

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FUNCTION dewpt(t,rh)
  REAL, PARAMETER   :: rv = 461.5   ! Gas constant for water vapor in J
deg{-1} kg{-1}
  REAL, PARAMETER   :: lv = 2.500E6 ! Latent heat of vaporization in J
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  REAL, PARAMETER   :: rvolv = rv/lv
  REAL, INTENT(IN)  :: t    ! Air temperature in deg K
  REAL, INTENT(IN)  :: rh   ! Relative humidity as a fraction (0.->1.)
  REAL              :: dewpt

  dewpt = t / (( -rvolv * ALOG(MAX(rh,0.01)) * t) + 1.0 )
END FUNCTION dewpt
```

Thanks for all of your work.

73,
Brent, KB0URX

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

41. [wxsig] Re: Dewpoint Function

From: Steve Dimse <k4hg@tapr.org>
Date: Thu, 31 May 2001 09:34:54 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>

Message-ID: <LYR15067-15804-2001.05.31-08.54.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 5/30/01 9:44 AM Brent L. Shaw (shaw@fsl.noaa.gov) wrote:

>Yes, I just discovered what you mentioned...that the APRS spec does not
>include a dewpoint field. We should try and suggest this be added.
>
The policy of APRS has not to send duplicat data on the air. For example,
we don't send speed in MPH, KPH, and furlongs/fortinight, a single unit
is adequate. Since all units that we are aware of report RH, not DP, that
is the unit chosen for on-the-air data. This one in particular is tricky,
as it would be hard for microcontoller driven programs like the T238 or
my weather Pic-E program to do the conversion. Client programs are free
to display the results in any desired format. For example, findu.com
graphs dewpoint, which produces much more useful data IMHO. Still, the
air format is not going to be changed...

Steve K4HG

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

42. [wxsig] Re: Dewpoint Function

From: Arnold Harding <kq6di@home.com>
Date: Thu, 31 May 2001 16:51:11 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-15907-2001.05.31-19.10.44--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I was thinking that dewpoint could be easily implemented as a look up
table. There are only 2 variables; temperature and humidity. If you
limited the range of temperature to 55 degrees c and humidity range of
1 to 100% this makes a two dimensional table of about 5.5K. I haven't
stuck any of this equation into a spreadsheet to see what it looks
like, but it also might be possible to reduce the size of the table by
extrapolating between either temperature or humidity values. What
really matters is if you have the space available for a table.
Extrapolating between values to reduce the table size is easy to do
even in assembly code, which is what I work in every day. I've
implemented look up tables several times to provide very accurate
results, even for thermocouples. It's a lot easier and faster than
floating point math, and it hardly requires any math. (Let Excel do
that!)

My thought of the range of 55 degrees c would cover temperatures of
-10c (14F) to 45c (113F). Anything outside that range could show
dashes (---) or some other indication that it just doesn't matter.

It would be nice to have a dewpoint function on the screen even if it
couldn't be sent back in APRS. Or give us the option to send back
dewpoint even if the APRS spec doesn't permit it so we can get the
data we want from our own weather station.

If you're interested in the extrapolation pseudo code, let me know and
I'll provide.

Thanks, Arnold , KQ6DI

>
> FUNCTION dewpt(t,rh)
>   REAL, PARAMETER   :: rv = 461.5   ! Gas constant for water vapor in J
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>   REAL, PARAMETER   :: lv = 2.500E6 ! Latent heat of vaporization in J
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>   REAL   :: dewpt
>
>   dewpt = t / ((-rvolv * ALOG(MAX(rh,0.01)) * t) + 1.0)
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>
> Thanks for all of your work.
>
> 73,
> Brent, KB0URX
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> William Beals wrote:

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> >
> > The APRS spec does humidity, not dewpoint. In general I agree with you that
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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

43. [wxsig] Re: Dewpoint Function

From: Steve Dimse <k4hg@tapr.org>
Date: Thu, 31 May 2001 20:19:47 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-15910-2001.05.31-19.39.02--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 5/31/01 7:51 PM Arnold Harding (kq6di@home.com) wrote:

>I was thinking that dewpoint could be easily implemented as a look up
>table. There are only 2 variables; temperature and humidity. If you
>limited the range of temperature to 55 degrees c and humidity range of
>1 to 100% this makes a two dimensional table of about 5.5K. I haven't
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>Extrapolating between values to reduce the table size is easy to do
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>implemented look up tables several times to provide very accurate
>results, even for thermocouples. It's a lot easier and faster than
>floating point math, and it hardly requires any math. (Let Excel do
>that!)
>
I tried this with findu, just a straight table without interpolation (you may remember I asked on APRSSIG for someone to help with this, my concern was that running the complex formula a few hundred times within a loop for the temp graph would be a big CPU drain, but it turns out there was less than a millisecond difference between the two methods. Of course, I was storing the values in a mysql table, which would be more overhead than embedded within the code. However, the whole cgi, including all the drawing code, takes about 30 ms, so after I looked at it, I decided there wasn't much to be gained. It might make sense in an embedded application, where higher math is difficult.

Steve K4HG

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

44. [wxsig] Re: Dewpoint Function

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Thu, 31 May 2001 22:32:02 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-15926-2001.05.31-21.51.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

one simple complaint ... I regularly go below 0F here in the winter for
hours, even days on end, and any stations in Phoenix this past week
would have blown past the 113F many times

> -----Original Message-----
> From: bounce-wxsig-15705@lists.tapr.org
> [mailto:bounce-wxsig-15705@lists.tapr.org]On Behalf Of Arnold Harding
> Sent: Thursday, May 31, 2001 19:51 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: Dewpoint Function

  [snip]
>
> My thought of the range of 55 degrees c would cover temperatures of
> -10c (14F) to 45c (113F). Anything outside that range could show
> dashes (---) or some other indication that it just doesn't matter.
>
> It would be nice to have a dewpoint function on the screen even if it

> couldn't be sent back in APRS. Or give us the option to send back
> dewpoint even if the APRS spec doesn't permit it so we can get the
> data we want from our own weather station.
>
> If you're interested in the extrapolation pseudo code, let me know and
> I'll provide.
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

45. [wxsig] Re: Dewpoint Function

From: Arnold Harding <kq6di@home.com>
Date: Thu, 31 May 2001 19:51:45 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-15938-2001.05.31-22.11.17--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

OK, so the range could be larger. It just makes the tables larger. I
was just thinking that beyond some range of temperatures, it just
doesn't matter any more. I think there is also a problem calculating
dewpoints below freezing; is it now dewpoint or frostpoint. That
could be handled in the tables.

On the other hand, I'm not writing the software. I like dewpoint more
than humidity myself also. I also don't want the software author to
get software burnout and abandon us.

later, Arnold

"Brian B. Riley" wrote:
>
> one simple complaint ... I regularly go below 0F here in the winter for
> hours, even days on end, and any stations in Phoenix this past week
> would have blown past the 113F many times
>
> > -----Original Message-----
> > From: bounce-wxsig-15705@lists.tapr.org
> > [mailto:bounce-wxsig-15705@lists.tapr.org]On Behalf Of Arnold Harding
> > Sent: Thursday, May 31, 2001 19:51 PM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] Re: Dewpoint Function
> >
>   [snip]
> >
> > My thought of the range of 55 degrees c would cover temperatures of
> > -10c (14F) to 45c (113F). Anything outside that range could show
> > dashes (---) or some other indication that it just doesn't matter.
> >
> > It would be nice to have a dewpoint function on the screen even if it
> > couldn't be sent back in APRS. Or give us the option to send back
> > dewpoint even if the APRS spec doesn't permit it so we can get the
> > data we want from our own weather station.
> >
> > If you're interested in the extrapolation pseudo code, let me know and
> > I'll provide.
> >
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

46. [wxsig] Re: Dewpoint Function

From: "William Beals" <will@beals5.com>
Date: Thu, 31 May 2001 21:59:07 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-15955-2001.05.31-23.16.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Steve and Arnold:

A slight variation on the suggestions so far: What I may get away with is a
lookup table just for the natural log function. I already have routines
that work fairly well for certain combinations of fixed-point multiplication
and division. That could significantly cut down on code space required.
Note that I "only" have 32KBytes on this micro and so far I've used up just

under half of it. Chewing up 5K for just one math function might be a bit excessive.

What I think I could do is come up with a single table for the -rvolv*ALOG(MAX(rh,0.01)) part that would be a single-dimension array with 100 rh entries and could hopefully find a resultant value for that part of the equation that could be adequately represented in one byte. That would give a table of 100 bytes or maybe even less if I could get away with entries only for every other RH value.

We may be getting closer to a workable solution. I'm certainly open to further suggestions. Nothing like email-brainstorming!

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Steve Dimse
Sent: Thursday, May 31, 2001 6:20 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Dewpoint Function

On 5/31/01 7:51 PM Arnold Harding (kq6di@home.com) wrote:

>I was thinking that dewpoint could be easily implemented as a look up
>table. There are only 2 variables; temperature and humidity. If you
>limited the range of temperature to 55 degrees c and humidity range of
>1 to 100% this makes a two dimensional table of about 5.5K. I haven't
>stuck any of this equation into a spreadsheet to see what it looks
>like, but it also might be possible to reduce the size of the table by
>extrapolating between either temperature or humidity values. What
>really matters is if you have the space available for a table.
>Extrapolating between values to reduce the table size is easy to do
>even in assembly code, which is what I work in every day. I've
>implemented look up tables several times to provide very accurate
>results, even for thermocouples. It's a lot easier and faster than
>floating point math, and it hardly requires any math. (Let Excel do
>that!)
>
I tried this with findu, just a straight table without interpolation (you may remember I asked on APRSSIG for someone to help with this, my concern was that running the complex formula a few hundred times within a loop for the temp graph would be a big CPU drain, but it turns out there was less than a millisecond difference between the two methods. Of course, I was storing the values in a mysql table, which would be more overhead than embedded within the code. However, the whole cgi, including all the drawing code, takes about 30 ms, so after I looked at it, I decided there wasn't much to be gained. It might make sense in an embedded application, where higher math is difficult.

Steve K4HG

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

47. [wxsig] Re: Dewpoint Function

From: "William Beals" <will@beals5.com>
Date: Thu, 31 May 2001 22:10:38 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-15956-2001.05.31-23.27.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Arnold and Brian:

If we just use tables for the RH part of the math calculation and regular division and multiplication for the rest, we are conveniently bounded by 1-100% on the table and can keep it small without any restrictions on temperature ranges.

will

-----Original Message-----

From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
Sent: Thursday, May 31, 2001 8:52 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Dewpoint Function

OK, so the range could be larger. It just makes the tables larger. I was just thinking that beyond some range of temperatures, it just doesn't matter any more. I think there is also a problem calculating dewpoints below freezing; is it now dewpoint or frostpoint. That could be handled in the tables.

On the other hand, I'm not writing the software. I like dewpoint more than humidity myself also. I also don't want the software author to get software burnout and abandon us.

later, Arnold

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

June 2001

Original source file: wxsig.0106
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0106

1. [wxsig] 1.12.5 coming shortly

From: "William Beals" <will@beals5.com>
Date: Mon, 4 Jun 2001 22:10:33 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-16755-2001.06.04-23.27.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Based on some prodding I have added at least some theoretical support for solar powered applications to the 1.12.4 release. Two features have been added, each of which does require some small modifications to the T238 board. The firmware will work fine without the HW modifications as well, but at least one resistor would prevent a weird display value. The changes are:

1) Added a radio power control output. Port C bit 0 has been coded to be a radio-enable output. It gets asserted 15 seconds before a transmission and then de-asserted 10 seconds after transmission. If you do not want this feature, just leave the pin alone. Not very high tech, but should suffice. I'm open to further suggestions, but am trying to avoid any kind of modes for this support. A theoretical circuit to power the radio via a relay is shown in the attached GIF image below.

2) Battery voltage monitoring. Port B bit seven will now monitor an incoming voltage. This voltage is assumed to be a divide-by-three of the battery voltage. A sample circuit is shown below that can be tweeked to be more accurate. If you get 1% resistors and can live with 2% errors, then no potentiometer is needed. The voltage is displayed on the status screen. If you do not want this feature and want the voltage to display something predictable, tie port B bit 7 to ground. An additional byte representing the battery voltage has been added to the end of the hourly status screen. To get this voltage, take the value of the last byte, convert to decimal, and multiply by 0.0586 volts (15.0/256) to get the actual voltage.

I have the code up and running on my station now and will watch it a bit to make sure I didn't mess anything up. It should be released in a day or so. I will add the GIF image and the instructions above to the website (http://www.beals5.com/wx) shortly as well.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] RE: 1.12.5 coming shortly

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Tue, 5 Jun 2001 22:21:59 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-16919-2001.06.05-21.41.22--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

yesssss, way to go Will, been wanting that voltage reading for awhile ... thanks, I will then be able to check the state of my home power system from anywhere I have access to the web or that my D700 can hear my digi ...

> -----Original Message-----
> From: William Beals
> Sent: Tuesday, June 05, 2001 0:11 AM
> To: TAPR WX Special Interest Group

> Subject: [wxsig] 1.12.5 coming shortly

  [snip]

>> 2) Battery voltage monitoring. Port B bit seven will now monitor an
> incoming voltage. This voltage is assumed to be a
> divide-by-three of the
> battery voltage. A sample circuit is shown below that can be
> tweeked to be
> more accurate. If you get 1% resistors and can live with 2%
> errors, then no
> potentiometer is needed. The voltage is displayed on the
> status screen. If
> you do not want this feature and want the voltage to display something
> predictable, tie port B bit 7 to ground. An additional byte
> representing
> the battery voltage has been added to the end of the hourly
> status screen.
> To get this voltage, take the value of the last byte, convert
> to decimal,
> and multiply by 0.0586 volts (15.0/256) to get the actual voltage.
>

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] RE: 1.12.5 coming shortly

From: "William Beals" <will@beals5.com>
Date: Tue, 5 Jun 2001 21:32:04 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-16952-2001.06.05-22.49.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Brian:

Right now I only send the data on the hour and then in Hex. If you needs
are to always have access to this data on every transmission, then some more
changes may be needed. Once you give it a try, let me know.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Brian B. Riley
Sent: Tuesday, June 05, 2001 8:22 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: 1.12.5 coming shortly

yesssss, way to go Will, been wanting that voltage reading for awhile
... thanks, I will then be able to check the state of my home power
system from anywhere I have access to the web or that my D700 can hear
my digi ...

> -----Original Message-----
> From: William Beals
> Sent: Tuesday, June 05, 2001 0:11 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] 1.12.5 coming shortly

  [snip]

>> 2) Battery voltage monitoring. Port B bit seven will now monitor an
> incoming voltage. This voltage is assumed to be a
> divide-by-three of the
> battery voltage. A sample circuit is shown below that can be
> tweeked to be
> more accurate. If you get 1% resistors and can live with 2%
> errors, then no
> potentiometer is needed. The voltage is displayed on the
> status screen. If
> you do not want this feature and want the voltage to display something
> predictable, tie port B bit 7 to ground. An additional byte
> representing
> the battery voltage has been added to the end of the hourly
> status screen.
> To get this voltage, take the value of the last byte, convert

> to decimal,
> and multiply by 0.0586 volts (15.0/256) to get the actual voltage.
>

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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] RE: 1.12.5 coming shortly

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Tue, 5 Jun 2001 23:39:12 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-16956-2001.06.05-22.58.31--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Once an hour is fine .... looking more at general state of charge as
opposed to fine detail ...

> -----Original Message-----
> From: bounce-wxsig-15705@lists.tapr.org
> [mailto:bounce-wxsig-15705@lists.tapr.org]On Behalf Of William Beals
> Sent: Tuesday, June 05, 2001 23:32 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: 1.12.5 coming shortly
>
>
> Brian:
>
> Right now I only send the data on the hour and then in Hex.
> If you needs
> are to always have access to this data on every transmission,
> then some more
> changes may be needed. Once you give it a try, let me know.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Brian B. Riley
> Sent: Tuesday, June 05, 2001 8:22 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: 1.12.5 coming shortly
>
>
> yesssss, way to go Will, been wanting that voltage reading for awhile
> ... thanks, I will then be able to check the state of my home power
> system from anywhere I have access to the web or that my D700 can hear
> my digi ...
>
> > -----Original Message-----
> > From: William Beals
> > Sent: Tuesday, June 05, 2001 0:11 AM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] 1.12.5 coming shortly
> >
> >   [snip]
> >
> > >> 2) Battery voltage monitoring. Port B bit seven will now
> > monitor an
> > > incoming voltage. This voltage is assumed to be a
> > > divide-by-three of the
> > > battery voltage. A sample circuit is shown below that can be
> > > tweeked to be
> > > more accurate. If you get 1% resistors and can live with 2%
> > > errors, then no
> > > potentiometer is needed. The voltage is displayed on the
> > > status screen. If
> > > you do not want this feature and want the voltage to
> > display something
> > > predictable, tie port B bit 7 to ground. An additional byte
> > > representing
> > > the battery voltage has been added to the end of the hourly
> > > status screen.

> > To get this voltage, take the value of the last byte, convert
> > to decimal,
> > and multiply by 0.0586 volts (15.0/256) to get the actual voltage.
> >
>
>
> ---
> You are currently subscribed to wxsig as: will@beals5.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
> ---
> You are currently subscribed to wxsig as: ka2bqe@amsat.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] 1.12.5 posted

From: "William Beals" <will@beals5.com>
Date: Tue, 5 Jun 2001 22:04:36 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-16958-2001.06.05-23.21.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

The 1.12.5 release mentioned last night ran OK today. It has been posted on
the website (http://www.beals5.com/wx) for downloads. Information on how to
hook up the solar support circuitry is on the schematics page.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] Re: 1.12.5 posted

From: Ken Brown <n5kuk@ounnws.noaa.gov>
Date: Fri, 08 Jun 2001 01:23:06 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-17368-2001.06.07-20.41.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

I have run 1.12.5 for 24 hours and everything looks like it is running
OK.

Since my last message I have fooled around with the TigerTrack TM-1+
by turning it off after each transmission and turning it on again before
the next one. So far it has performed without any kind of a problem
when I use the normal TNC mode. It inserts some kind of bogus character
ahead of the data when I tried TNC-Ltp mode unless I turned it off
between transmissions. In that case it also worked fine.

This weekend I'll work on the power control interface you built in to
the latest version.
--
Ken Brown, NWS Forecast Office, Norman OK
ken.brown@ounnws.noaa.gov

William Beals wrote:
>
> Folks:
>
> The 1.12.5 release mentioned last night ran OK today. It has been posted on
> the website (http://www.beals5.com/wx) for downloads. Information on how to
> hook up the solar support circuitry is on the schematics page.
>
> will

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] Re: 1.12.5 posted

From: "William Beals" <will@beals5.com>
Date: Thu, 7 Jun 2001 22:15:09 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-17408-2001.06.07-23.32.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ken:

Glad things are working mostly OK. You are essentially the guinea-pig for
the solar stuff as my implementation will be after yours. Please keep us
informed how things go. I've been looking for a good circuit to handle both
the solar battery charging as well as protecting the battery from being
discharged too far. Any suggestions?

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
Sent: Thursday, June 07, 2001 7:23 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 1.12.5 posted

Will,

I have run 1.12.5 for 24 hours and everything looks like it is running
OK.

Since my last message I have fooled around with the TigerTrack TM-1+
by turning it off after each transmission and turning it on again before
the next one. So far it has performed without any kind of a problem
when I use the normal TNC mode. It inserts some kind of bogus character
ahead of the data when I tried TNC-Ltp mode unless I turned it off
between transmissions. In that case it also worked fine.

This weekend I'll work on the power control interface you built in to
the latest version.
--
Ken Brown, NWS Forecast Office, Norman OK
ken.brown@ounnws.noaa.gov

William Beals wrote:
>
> Folks:
>
> The 1.12.5 release mentioned last night ran OK today. It has been posted
on
> the website (http://www.beals5.com/wx) for downloads. Information on how
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> hook up the solar support circuitry is on the schematics page.
>
> will

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org

To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] Re: 1.12.5 posted

From: "Ron Kolarik" <rkolarik@neb.rr.com>
Date: Fri, 8 Jun 2001 23:36:53 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-17619-2001.06.09-00.00.45--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Will,

     Trying to get caught up on the backlog here and didn't see
a response to your question. Mike Bryce has had several
articles in QST on solar controllers. Do you have access
to QST back issues? If not I'll dig around and see what
I can find and scan it for you.

Ron

----- Original Message -----
From: "William Beals" <will@beals5.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Thursday, June 07, 2001 23:15 PM
Subject: [wxsig] Re: 1.12.5 posted

> Ken:
>
> Glad things are working mostly OK. You are essentially the guinea-pig for
> the solar stuff as my implementation will be after yours. Please keep us
> informed how things go. I've been looking for a good circuit to handle
both
> the solar battery charging as well as protecting the battery from being
> discharged too far. Any suggestions?
>
> will

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] Re: 1.12.5 posted

From: "William Beals" <will@beals5.com>
Date: Sat, 9 Jun 2001 09:12:11 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-17687-2001.06.09-10.32.17--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ron:

Unfortunatly, I don't keep back issues, I ran out of room a while back and
made the tough decision to no longer keep them. I know I have seen articles
and thought they were in the "big book" I looked at the few I had, but
could not find them. Any help is appreciated.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ron Kolarik
Sent: Friday, June 08, 2001 10:37 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 1.12.5 posted

Hi Will,

     Trying to get caught up on the backlog here and didn't see
a response to your question. Mike Bryce has had several
articles in QST on solar controllers. Do you have access
to QST back issues? If not I'll dig around and see what
I can find and scan it for you.

Ron

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] Re: 1.12.5 posted

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sat, 9 Jun 2001 14:27:08 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-17729-2001.06.09-14.44.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ron, I would recommend looking at the following link:

http://www.seslogic.com/microm.html

I am going to order one of these little guys for myself. No RFI, extremely
low current drain and small foot print. Only $35.

Rich Wn0x.

----- Original Message -----
From: "Ron Kolarik" <rkolarik@neb.rr.com>

> Hi Will,
>
>   Trying to get caught up on the backlog here and didn't see
> a response to your question. Mike Bryce has had several
> articles in QST on solar controllers. Do you have access
> to QST back issues? If not I'll dig around and see what
> I can find and scan it for you.
>
> Ron
>
> ----- Original Message -----
> From: "William Beals" <will@beals5.com>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Thursday, June 07, 2001 23:15 PM
> Subject: [wxsig] Re: 1.12.5 posted
>
>
> > Ken:
> >
> > Glad things are working mostly OK. You are essentially the guinea-pig
for
> > the solar stuff as my implementation will be after yours. Please keep
us
> > informed how things go. I've been looking for a good circuit to handle
> both
> > the solar battery charging as well as protecting the battery from being
> > discharged too far. Any suggestions?
> >
> > will
>
>
>
> ---
> You are currently subscribed to wxsig as: wn0x@earthlink.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] Re: 1.12.5 posted

From: "William Beals" <will@beals5.com>
Date: Sat, 9 Jun 2001 22:56:20 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-17788-2001.06.10-00.21.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

Is there a better description of this device somehwere? It seems cool, but
the website doesn't give any details about the device.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Rich Beckwith
Sent: Saturday, June 09, 2001 1:27 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 1.12.5 posted

Ron, I would recommend looking at the following link:

http://www.seslogic.com/microm.html

I am going to order one of these little guys for myself. No RFI, extremely
low current drain and small foot print. Only $35.

Rich Wn0x.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] Re: 1.12.5 posted

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Sun, 10 Jun 2001 12:06:38 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-17842-2001.06.10-11.26.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have been using a Trace C-40 contorller on my main home power system
and the ham stuff is not segregated its all on one for now. The Trace
C-40 in 'float' mode wipes out a lot of the HF band, I manually force it
into 'equalize' (essentially no control at all), when I want to work HF
on a sunny afternoon ... I just purchased and am in the process of
installing an RV Power Products SB50D, which is an MPPT (maximum power
point tracking) controller will let you know how that does with HF hash
...

> -----Original Message-----
> From: bounce-wxsig-15705@lists.tapr.org
> [mailto:bounce-wxsig-15705@lists.tapr.org]On Behalf Of Rich Beckwith
> Sent: Saturday, June 09, 2001 15:27 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: 1.12.5 posted
>
>
> Ron, I would recommend looking at the following link:
>
> http://www.seslogic.com/microm.html
>
> I am going to order one of these little guys for myself. No
> RFI, extremely
> low current drain and small foot print. Only $35.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

13. [wxsig] Re: 1.12.5 posted

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sun, 10 Jun 2001 13:46:58 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-17871-2001.06.10-14.04.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I orginally heard about this unit when I was a beta tester for the Elecraft
K2 HF transceiver. The K2 is a fully synthesized, all band digital HF
transceiver you build from a kit. It has an internal battery option and
draws very little current (as low as 120 ma) on receive, so is ideal for
solar power.

The MicroM+ came turned out to be a good option for adding a solar power to
this radio and was recommended by several of the builders at that time.

I will check around and see what I can find.

Rich

> Rich:
>
> Is there a better description of this device somehwere? It seems cool,
but
> the website doesn't give any details about the device.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Rich Beckwith
> Sent: Saturday, June 09, 2001 1:27 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: 1.12.5 posted
>
>
> Ron, I would recommend looking at the following link:
>
> http://www.seslogic.com/microm.html
>
> I am going to order one of these little guys for myself. No RFI,
extremely
> low current drain and small foot print. Only $35.
>
> Rich Wn0x.
>
>
> ---
> You are currently subscribed to wxsig as: wn0x@earthlink.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] Re: Solar Power

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sun, 10 Jun 2001 13:50:15 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-17872-2001.06.10-14.07.21--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am using a C40 as well for my 480 watt array and haven't had any problems
so far. How close to the C40 are you? Mine is mounted on my Trace power
panel with the 4024 inverter, bypass switches etc in the basement.

----- Original Message -----
From: "Brian B. Riley" <brianbr@wulfden.org>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Sunday, June 10, 2001 11:06 AM
Subject: [wxsig] Re: 1.12.5 posted

> I have been using a Trace C-40 contorller on my main home power system
> and the ham stuff is not segregated its all on one for now. The Trace
> C-40 in 'float' mode wipes out a lot of the HF band, I manually force it
> into 'equalize' (essentially no control at all), when I want to work HF
> on a sunny afternoon ... I just purchased and am in the process of
> installing an RV Power Products SB50D, which is an MPPT (maximum power
> point tracking) controller will let you know how that does with HF hash
> ...

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] Re: Solar Power

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Sun, 10 Jun 2001 22:32:18 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-17929-2001.06.10-21.51.52--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> -----Original Message-----
> From: Rich Beckwith
> Sent: Sunday, June 10, 2001 14:50 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: Solar Power

> I am using a C40 as well for my 480 watt array and haven't
> had any problems so far. How close to the C40 are you?
> Mine is mounted on my Trace power panel with the 4024
> inverter, bypass switches etc in the basement.

 I am all in the same room. maybe 4 feet from the controller ... I am doing a lot of rewiring and relocation right now, we will see what happens then ... boy .. a 4024 ... I have a 13 year old Trace 2012SB ... and an Exeltech 500wa tt sine wave for things that croak on mod-sine. My current array is about 700 watts but I am in the process of adding 3 more SP75s. How big is your battery bank? what type batteries. I would buy a 4024 but they would only give me $500 for the 2012 ... its worth more than that to me as a very high current battery charger! Ia m really looking forward to gettuing the SB50D MPPT controller online because it has amode that will let me run the array at 24 V and it will charge a 12volt battery bank ... sort of letting me to switch over to 24 VDC a step at a time instead of one big expense.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] HRe: Solar Power

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Mon, 11 Jun 2001 00:40:00 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-17959-2001.06.11-00.57.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> I am all in the same room. maybe 4 feet from the controller ... I am
> doing a lot of rewiring and relocation right now, we will see what
> happens then ... boy .. a 4024 ... I have a 13 year old Trace 2012SB ...
> and an Exeltech 500wa tt sine wave for things that croak on mod-sine. My
> current array is about 700 watts but I am in the process of adding 3
> more SP75s. How big is your battery bank? what type batteries.

Eight 375 AH L-16s in parrallel. I calculate about 750 AH of total capacity. Divide that by 2, multiple by your efficiency factors and I figure I have about 350 AH of usable capacity. . I purchased the 4024/panel for expandibility down the road. I would like to add an additional 480 watts of PV and upgrade my 400 watt wind generator to a 1kw model. Pipe dream at the moment. I am definately interested in the MPPT charge controllers, but will have to stick with my C40 for now.

BTW, my SB220 with Kenwood 930 draws about 120 amps at 1KW on this unit. Not something I would do everyday, but it was interesting to see.

Rich - Wn0x

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

17. [wxsig] RE: HRe: Solar Power

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Mon, 11 Jun 2001 07:33:57 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-17975-2001.06.11-07.01.48--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> -----Original Message-----
> From: Rich Beckwith
> Sent: Monday, June 11, 2001 1:40 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] HRe: Solar Power

    [snip]

> Eight 375 AH L-16s in parrallel. I calculate about 750 AH of total
> capacity. Divide that by 2, multiple by your efficiency factors and I
> figure I have about 350 AH of usable capacity. . I purchased the

> 4024/panel for expandibility down the road. I would like to add an
> additional 480 watts of PV and upgrade my 400 watt wind
> generator to a 1kw model. Pipe dream at the moment. I am
> definately interested in the MPPT charge controllers, but will have
> to stick with my C40 for now.

 I assume you mean 8 L-16s in two parallel series strings of 4 or are
you set for 48 V operation? I am running 6 L-16s in three parallel
series of two for a 12 VDC system. You definitely need more PV, your
array is really undersized for that size bank ... My setup here is just
right for the 6 L-16s. What do you do for 12vdc for your ham stuff, run
an Astron supply or do you ave a 48/12 DC-DC converter? I had a 600 watt
wind jenny, but I am disgustred with it ... keeps breaking blades
(carbon fiber no less!) here in the severe storms. My try one of the new
bergey 1.5 KW unit, they supposedly can take the severe winds we get
here.

 Defintely look into the MPPT controller. In my system its like having
two-three more panels.

> BTW, my SB220 with Kenwood 930 draws about 120 amps at 1KW on
> this unit. Not something I would do everyday, but it was interesting
> to see.

 My toaster draws 95 amps (12 vdc) and its interesting to watch the
Trimetric 2000 Meter display run down lickety split when my English
muffins are poasting!

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

18. [wxsig] Dewpoint for APRS (Was Re: Dewpoint Function)

From: "Brent L. Shaw" <shaw@fsl.noaa.gov>
Date: Mon, 11 Jun 2001 07:40:42 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-17988-2001.06.11-09.02.39--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Steve Dimse wrote:
>
> On 5/30/01 9:44 AM Brent L. Shaw (shaw@fsl.noaa.gov) wrote:

> The policy of APRS has not to send duplicat data on the air. For example,
> we don't send speed in MPH, KPH, and furlongs/fortinight, a single unit
> is adequate. Since all units that we are aware of report RH, not DP, that
> is the unit chosen for on-the-air data. This one in particular is tricky,
> as it would be hard for microcontoller driven programs like the T238 or
> my weather Pic-E program to do the conversion. Client programs are free
> to display the results in any desired format. For example, findu.com
> graphs dewpoint, which produces much more useful data IMHO. Still, the
> air format is not going to be changed...

OK, so it sounds like no changes or addition are possible, but just to
throw in my final two cents:
I agree that it is good policy not to transmit redundant information,
but it would be nice to have a dewpoint identifier that could be used
instead of relative humidity if a station supports it and desires to
send it. However, I can see how that could cause problems for all of
the display utilities, etc. that expect to find RH. I am not real
familiar with all the various commercially available home weather
stations, but most that I have seen report dewpoint on their display as
well as RH. As far as "operational" weather observations (METARS, etc.)
they report dewpoint, not RH.

In any event, dewpoint can be derived by the end user given temp and RH,
so I will get off the soapbox for now!

73,

Brent

> ---
> You are currently subscribed to wxsig as: shaw@fsl.noaa.gov
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

--

```
*********************************************************************
* Brent L. Shaw               Title  : Research Associate       *
* NOAA/OAR/FSL/FRD  R/FS1     Affil. : CIRA/CSU                 *
* 325 Broadway                Phone  : (303) 497-6100           *
* Boulder, CO  80305-3328     E-Mail : shaw@fsl.noaa.gov        *
* http://laps.fsl.noaa.gov    Room   : DSRC - 2B511             *
*********************************************************************

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

19. [wxsig] Re: Dewpoint for APRS (Was Re: Dewpoint Function)

From: Steve Dimse <k4hg@tapr.org>
Date: Mon, 11 Jun 2001 20:54:13 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-18100-2001.06.11-20.14.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 6/11/01 9:40 AM Brent L. Shaw (shaw@fsl.noaa.gov) wrote:

>OK, so it sounds like no changes or addition are possible, but just to
>throw in my final two cents:
>I agree that it is good policy not to transmit redundant information,
>but it would be nice to have a dewpoint identifier that could be used
>instead of relative humidity if a station supports it and desires to
>send it. However, I can see how that could cause problems for all of
>the display utilities, etc. that expect to find RH. I am not real
>familiar with all the various commercially available home weather
>stations, but most that I have seen report dewpoint on their display as
>well as RH. As far as "operational" weather observations (METARS, etc.)
>they report dewpoint, not RH.
>
I think you are missing the point. One, and only one, unit for each measurement was chosen for use on the air. The one chosen was the easiest to obtain for that measurement, not for what people expect or want to see. For example, vehicle speed is sent as knots, because that is what most GPSes put out (actually, to be correct, that was what most LORANs put out, GPS was rare when APRS was created). Few people are used to speeds in knots, so all APRS clients convert that into MPH or KPH before the user ever sees it. Windspeed however is sent in MPH, because most weather station have that output. RH was chosen because all weather stations have that output. Some may also put out dewpoint, but for example the Peet Bros U2k only does in complete record format, 300-odd bytes long, certainly not suitable for on-the-air use as a stand-alone weather station. The U-II never put out dew point, and that was the top-of-the-line when this decision was made. Even today, though, the decision would be the same.

The on-the-air format isn't meant to be read by humans. A computer can convert to any units, it doesn't care what the input units are as long as it knows what they are. So it isn't that no changes or additions to the APRS spec are possible (they are, though it is a long and involved process) but that in this case, there is no reason to make this change or addition.

Steve K4HG

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

20. [wxsig] RE: HRe: Solar Power

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Mon, 11 Jun 2001 22:08:47 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-18107-2001.06.11-22.26.15--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yup, two banks (4 six volt batteries) in parrallel for a total of 8 batteries.   It is definately more of a backup power system for now. If I just power the freezer and a couple of flourescent lights, with good sun it is sufficient to charge to 100% each day. Hard getting good sun in Missouri though. The Air 404 is a great little unit, but is VERY loud when it stalls. I would much rather have a unit that folds back or tips up during high winds.

I count on the 4024 (4000 watt/24 V) to give me 12 volts through standard 12 volt power supplies. Yes, there is a performance hit, but the inverter runs

in the 94% efficiency range and its much cheaper to use exising house wiring
to deliver stored energy. Also, my 930 is a 110V device only.

My weather station/aprs stuff and ham shack are all set up on the inverter.
I would love to try a tracker and MPPT charge controller with about 1KW of
PV to see what I could do.

Regard,

Rich

> I assume you mean 8 L-16s in two parallel series strings of 4 or are
> you set for 48 V operation? I am running 6 L-16s in three parallel
> series of two for a 12 VDC system. You definitely need more PV, your
> array is really undersized for that size bank ... My setup here is just
> right for the 6 L-16s. What do you do for 12vdc for your ham stuff, run
> an Astron supply or do you ave a 48/12 DC-DC converter? I had a 600 watt
> wind jenny, but I am disgustred with it ... keeps breaking blades
> (carbon fiber no less!) here in the severe storms. My try one of the new
> bergey 1.5 KW unit, they supposedly can take the severe winds we get
> here.
>
> Defintely look into the MPPT controller. In my system its like having
> two-three more panels.
>
> > BTW, my SB220 with Kenwood 930 draws about 120 amps at 1KW on
> > this unit. Not something I would do everyday, but it was interesting
> > to see.
>
> My toaster draws 95 amps (12 vdc) and its interesting to watch the
> Trimetric 2000 Meter display run down lickety split when my English
> muffins are poasting!
>
>
>
> ---
> You are currently subscribed to wxsig as: wn0x@earthlink.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

21. [wxsig] Anyone have updated code for WX PIC-E?

From: "Lee Barnett" <lbarnett@claimsware.com>
Date: Wed, 13 Jun 2001 19:41:20
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-18404-2001.06.13-20.01.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am looking for anyone who might have an update to Steve's code for using
the PIC-E with the Peet Brothers U-2000 for a stand alone weather node.

TNX & 73,
Lee, N4GLB

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

22. [wxsig] Re: Anyone have updated code for WX PIC-E?

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Tue, 19 Jun 2001 22:23:24 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-19468-2001.06.19-22.41.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Lee,

The following link is for a BP sensor based on the DS2438. I orginally
submitted this to the sig nearly 8 months ago. It includes a board layout,
the original design from Dan Awtrey and my slightly modified design.

http://home.earthlink.net/~wn0x/BP2438.pdf

Fact is, no one is willing to include support for a BP sensor until DalSemi
comes out with their own unit. So much for experimentation.

This is a very simple design, but my lab tests were very satisfactory. I
have source code for a Visual Basic program used to monitor the output if
you are interested. I woud encourage you to test the design and see if you
get similar results.

Rich Beckwith - Wn0x

> I am looking for anyone who might have an update to Steve's code for using
> the PIC-E with the Peet Brothers U-2000 for a stand alone weather node.
>
> TNX & 73,
> Lee, N4GLB
>
> ---
> You are currently subscribed to wxsig as: wn0x@earthlink.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

23. [wxsig] Re: Anyone have updated code for WX PIC-E?: OOPS

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Tue, 19 Jun 2001 22:30:14 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-19469-2001.06.19-22.47.40--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Sorry Lee,

Sent right response to the wrong person!

Disregard!

Rich - Wn0x

----- Original Message -----
From: "Lee Barnett" <lbarnett@claimsware.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Wednesday, June 13, 2001 7:41 PM
Subject: [wxsig] Anyone have updated code for WX PIC-E?

> I am looking for anyone who might have an update to Steve's code for using
> the PIC-E with the Peet Brothers U-2000 for a stand alone weather node.
>
> TNX & 73,
> Lee, N4GLB
>
> ---
> You are currently subscribed to wxsig as: wn0x@earthlink.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

24. [wxsig] Re: [weather] 1-Wire BP VB Source

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Thu, 21 Jun 2001 22:43:43 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-19887-2001.06.21-23.01.15--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Several people have inquired about the source for the VB program I used in
testing the BP sensor so here it is:

http://home.earthlink.net/~wn0x/BP38.zip

I noticed it doesn't connect as readily to my new Windows 2000 machine
running at 833 mhz than with my 98se machine running at 333 mhz. I think it
is a timing issue because when I step throught the source (F8) it works
every time. I suspect the loops with a value of 1000 are the problem.

Please note that software "filters" are used to give better apparent
resolution to the sensor. That is why it takes several seconds for the BP
to arrive at its actual value.

Rich - Wn0x

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

July 2001

Original source file: wxsig.0107
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0107

1. [wxsig] APRSWXNET info

From: "Russ Chadwick" <crb5@qwest.net>
Date: Tue, 3 Jul 2001 19:09:07 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-22042-2001.07.03-20.29.44--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The NOAA Quality Checking and Monitoring System (QCMS) regularly ingests
APRSWXNET data and looks for inconsistent data in an effort to notify
weather station operators of possible transducer problems on their stations.
About 10 days ago the capability to check more than one measurement per hour
was added. So, the good news is that now more measurements are checked.
However, the bad news is that, for the past 10 days, the checking has
returned incorrect results. That includes the quality results for the past
10 days posted on my web site below.

This problem should be fixed so that the hourly and daily results posted
tonight (Tuesday) will be correct. However, disregard all the quality check
data for the past 10 days. Sorry that it took me so long to find the
problem.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Re: APRSWXNET info

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Wed, 4 Jul 2001 09:58:53 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-22145-2001.07.04-10.16.48--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks Russ, keep up the good work.

Rich - Wn0x

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] TAPR Offices Moving; Short Closure and New Phone Numbers

From: "John R. Ackermann" <jra@febo.com>
Date: Wed, 04 Jul 2001 18:25:44 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-22234-2001.07.04-18.01.54--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The TAPR offices will be moving a few miles from Denton to Richardson,
Texas. We'll be closing on July 26 for the move and re-opening on August
6. The Tucson mailing address will remain the same (it is a maildrop that
forwards to the real office address) but the phone numbers will change.
Effective August 6, they will be:

Voice: 972-671-TAPR (8277)
FAX: 972-671-8716

The office email address -- tapr@tapr.org -- will not change.

The move is occurring because Dorothy Jones, KA5DWR, our longtime Office
Manager, has decided to take a well-earned retirement. It would take a lot
of words to fully describe how much Dorothy has done for TAPR, and how much
we've all relied on her over the years, so I'll just say "Thanks!"

Our new office manager is Laura Koster (XYL of Board member John Koster,
W9DDD). Laura had a baptism of fire by handling the TAPR booth at the
Dayton Hamvention this year, and she did a great job. We're very happy to
have her on board, and we're sure that she will carry on Dorothy's goal of
providing great service to our members.

73,
John Ackermann   N8UR
President, TAPR
jra@febo.com -- n8ur@tapr.org

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] Baycomm BP-2 and T238

From: "Clay Bartholow" <w0led@arrl.net>
Date: Tue, 17 Jul 2001 11:2:38
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-24716-2001.07.17-11.24.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I searched for info regarding connecting a Baycomm BP-2 to the T238 to act
as a TNC but nothing popped up. Has this been discussed before? I can't
see any (obvious) reason why this combo wouldn't work but I thought I'd ask
first and experiment later.

So, any thoughts?

BTW, one of these days I'll get my T238 upgraded to the latest firmware and
get that RH report squared away. How many hours are there supposed to be
in a day? I forget...

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] Re: Baycomm BP-2 and T238

From: Ken Brown <Ken.Brown@ounnws.noaa.gov>
Date: Tue, 17 Jul 2001 17:19:07 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-24740-2001.07.17-12.40.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay,

If I remember correctly the Baycomm BP-2 is just a dumb modem that
connects to a computer. The computer then does all of the HDLC and
AX.25 magic to provide the data to the BP-2. The output from the
T238 is an async ascii data stream that is compatible with the
terminal
port of a TNC but it requires the TNC to do all of the data packet
assembly. I have run a T238 into the data port of a Tigertronics
TM-1+ tracking unit which is set up for transmitting telemetry data
and it seems to work fine but the TM-1+ has a PIC controller that
does the packet assembly magic.
--
Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

Clay Bartholow wrote:
>
> I searched for info regarding connecting a Baycomm BP-2 to the T238 to act
> as a TNC but nothing popped up. Has this been discussed before? I can't
> see any (obvious) reason why this combo wouldn't work but I thought I'd ask
> first and experiment later.
>
> So, any thoughts?
>
> BTW, one of these days I'll get my T238 upgraded to the latest firmware and
> get that RH report squared away. How many hours are there supposed to be
> in a day? I forget...
>
> ---
> You are currently subscribed to wxsig as: ken.brown@ounnws.noaa.gov
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] Re: Baycomm BP-2 and T238

From: "clay bartholow" <clay.bartholow@neicoltech.org>
Date: Tue, 17 Jul 2001 12:31:07 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-24749-2001.07.17-12.53.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

That's right, thanks Ken. I knew there was something that I was missing...

Clay

> -----Original Message-----
> From: bounce-wxsig-18179@lists.tapr.org
> [mailto:bounce-wxsig-18179@lists.tapr.org]On Behalf Of Ken Brown
> Sent: Tuesday, July 17, 2001 12:19 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: Baycomm BP-2 and T238
>
>
>
> Clay,
>
> If I remember correctly the Baycomm BP-2 is just a dumb modem that
> connects to a computer. The computer then does all of the HDLC and
> AX.25 magic to provide the data to the BP-2. The output from the
> T238 is an async ascii data stream that is compatible with the
> terminal
> port of a TNC but it requires the TNC to do all of the data packet
> assembly. I have run a T238 into the data port of a Tigertronics
> TM-1+ tracking unit which is set up for transmitting telemetry data
> and it seems to work fine but the TM-1+ has a PIC controller that
> does the packet assembly magic.
> --
> Kenneth A. Brown, WFO OUN, Norman OK
> Ken.Brown@ounnws.noaa.gov
>
>
> Clay Bartholow wrote:
> >
> > I searched for info regarding connecting a Baycomm BP-2 to the
> T238 to act
> > as a TNC but nothing popped up. Has this been discussed
> before? I can't
> > see any (obvious) reason why this combo wouldn't work but I
> thought I'd ask
> > first and experiment later.
> >
> > So, any thoughts?
> >
> > BTW, one of these days I'll get my T238 upgraded to the latest
> firmware and
> > get that RH report squared away. How many hours are there
> supposed to be
> > in a day? I forget...
> >
> > ---
> > You are currently subscribed to wxsig as: ken.brown@ounnws.noaa.gov
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
> ---
> You are currently subscribed to wxsig as: w0led@arrl.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] Max cable length

From: "William Beals" <will@beals5.com>
Date: Wed, 18 Jul 2001 22:21:10 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>

Message-ID: <LYR15067-25073-2001.07.18-23.38.19--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

I got an email from a person who is having trouble with his setup. One of
the things he is trying is a 500-foot cable. I know Russ has had some
issues when he had some long cables, but he was also dealing with some
branching issues.

I'm curious who out there has managed to get some long cable runs working
and you have any sneaky tricks to get it. I've only pushed my luck to about
100 feet of cable.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] Re: Max cable length

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Date: Wed, 18 Jul 2001 23:29:10 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-25074-2001.07.18-23.50.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

First, my T238 isn't tied in with 500 feet of cable, so I'm talking
somewhat theoretically, but I've had to deal with this in other
instrumentation issues before.

Just off the top of my head, I'm pretty sure that, unless he took some
pretty significant precautions, he's seeing a LOT of common mode
interference on a 500 foot run of cable.

If I had to go that far, I'd be looking at all the precautions
associated with CM rejetion, including source-end common point shield
grounding, shielded twisted pair cable and appropriate intermediate line
drivers and bypassing.

This is a hard nut to crack in my experience.

gerry
--
William Beals wrote:
>
> Folks:
>
> I got an email from a person who is having trouble with his setup. One of
> the things he is trying is a 500-foot cable. I know Russ has had some
> issues when he had some long cables, but he was also dealing with some
> branching issues.
>
> I'm curious who out there has managed to get some long cable runs working
> and you have any sneaky tricks to get it. I've only pushed my luck to about
> 100 feet of cable.
--
Gerry Creager -- gerry@cs.tamu.edu
Network Engineering |Research focusing on
Academy for Advanced Telecommunications |Satellite Geodesy and
and Learning Technologies |Geodetic Control
Texas A&M University   979.458.4020 (Phone) -- 979.847.8578 (Fax)

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] help with setting up 1-wire wx station sensor.

From: "John Szkudlarek, KA8FGE" <ka8fge@dnaco.net>
Date: Sun, 29 Jul 2001 10:32:39 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26761-2001.07.29-09.50.22--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

hello folks,

i am having troubles setting up the 1-wire weather station
sensors to my T-238.

with the display showing 'rotate clockwise slowly 1/3
--------' I then rotate the cups
but nothing happens. pushing reset is the only way out. what
should happen after
rotating clockwise slowly 1/3?

i never get to a menu for setup of wind direction.

using the software from aag.com.mx and connecting my PC to
the wind instrument, I see the readings for wind speed, wind
direction and temperature okay.

please note the wind instrument came with a note saying
'this V3.0 unit uses a different circuit to detect wind
direction. It uses DS2450 based circuit instead of
DS2407+(8) DS2401 circuit. for that reason is not
compatible with previous software versions. this unit
should be used with V3.0 compatible software.'

also, the adapter for DB9 to RG11 says "DS9097U-S09 0042C
120961".

thanks, John.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] Re: help with setting up 1-wire wx station sensor.

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sun, 29 Jul 2001 16:12:09 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26789-2001.07.29-17.34.08--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

----- Original Message -----
From: John Szkudlarek, KA8FGE <ka8fge@dnaco.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Sunday, July 29, 2001 8:32 AM
Subject: [wxsig] help with setting up 1-wire wx station sensor.

> hello folks,
>
> i am having troubles setting up the 1-wire weather station
> sensors to my T-238.
>
> with the display showing 'rotate clockwise slowly 1/3
> --------' I then rotate the cups
> but nothing happens. pushing reset is the only way out. what
> should happen after
> rotating clockwise slowly 1/3?

Those dashes in the message should count from 1 to 8 three times. That
means that 8 directions have been found and that they were in the same order
for three different rotations. You can just spin the wind vane by just a
flick of your finger. You don't need to move it manually with your hand on
it all the time.

> i never get to a menu for setup of wind direction.
>

After you get the count to 8 three times, you get a message saying to point
the wind vane to north and press select.

> using the software from aag.com.mx and connecting my PC to
> the wind instrument, I see the readings for wind speed, wind
> direction and temperature okay.

> please note the wind instrument came with a note saying
> 'this V3.0 unit uses a different circuit to detect wind
> direction. It uses DS2450 based circuit instead of
> DS2407+(8) DS2401 circuit. for that reason is not
> compatible with previous software versions. this unit
> should be used with V3.0 compatible software.'

What version of the T-238 software are you using? I think that the change
to T-238 software to include the new version of the AAG 1-Wire weather
station (V3.0) was 2 or 3 versions ago (end of March).

> also, the adapter for DB9 to RG11 says "DS9097U-S09 0042C
> 120961".

You do not need an adapter with the T-238. The RJ-11 should plug directly
into the T-238. You should use an RJ-11 that only uses two wires. Don't
use an RJ-11 that has 4 wires. All the testing that we have done so far is
with two wires.

Let us know what you find. We have not been able to do extensive testing
with multiple units.

Russ   KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] Re: help with setting up 1-wire wx station sensor.

From: "John Szkudlarek, KA8FGE" <ka8fge@dnaco.net>
Date: Sun, 29 Jul 2001 19:23:28 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26793-2001.07.29-18.41.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

hi Russ,

Russ Chadwick wrote:

> ----- Original Message -----
> From: John Szkudlarek, KA8FGE <ka8fge@dnaco.net>
> To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
> Sent: Sunday, July 29, 2001 8:32 AM
> Subject: [wxsig] help with setting up 1-wire wx station sensor.
>
> > hello folks,
> >
> > i am having troubles setting up the 1-wire weather station
> > sensors to my T-238.
> >
> > with the display showing 'rotate clockwise slowly 1/3
> > --------' I then rotate the cups
> > but nothing happens. pushing reset is the only way out. what
> > should happen after
> > rotating clockwise slowly 1/3?
>
> Those dashes in the message should count from 1 to 8 three times. That
> means that 8 directions have been found and that they were in the same order
> for three different rotations. You can just spin the wind vane by just a
> flick of your finger. You don't need to move it manually with your hand on
> it all the time.
>

after rotating the cups, the dashes never change.

>
> > i never get to a menu for setup of wind direction.
> >
>
> After you get the count to 8 three times, you get a message saying to point
> the wind vane to north and press select.
>
> > using the software from aag.com.mx and connecting my PC to
> > the wind instrument, I see the readings for wind speed, wind
> > direction and temperature okay.
>
> > please note the wind instrument came with a note saying
> > 'this V3.0 unit uses a different circuit to detect wind
> > direction. It uses DS2450 based circuit instead of
> > DS2407+(8) DS2401 circuit. for that reason is not
> > compatible with previous software versions. this unit
> > should be used with V3.0 compatible software.'
>
> What version of the T-238 software are you using? I think that the change
> to T-238 software to include the new version of the AAG 1-Wire weather
> station (V3.0) was 2 or 3 versions ago (end of March).
>

the chip says Ver 1.11.1

>
> > also, the adapter for DB9 to RG11 says "DS9097U-S09 0042C
> > 120961".
>
> You do not need an adapter with the T-238. The RJ-11 should plug directly
> into the T-238. You should use an RJ-11 that only uses two wires. Don't
> use an RJ-11 that has 4 wires. All the testing that we have done so far is
> with two wires.

>
> okay, it has 2 wire not 4.

>
> Let us know what you find. We have not been able to do extensive testing
> with multiple units.
>

thats all for now, let me know what to do next
thanks, John.

>
> Russ   KB0TVJ
> Boulder, CO
> http://www.users.qwest.net/~crb5/
>
> ---
> You are currently subscribed to wxsig as: ka8fge@dnaco.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] Re: help with setting up 1-wire wx station sensor.

From: kbrown@powerhouseproductions.com (Kevin Brown)
Date: Sun, 29 Jul 2001 18:25:59 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26796-2001.07.29-18.48.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

You shouldn□t be rotating the cups. You should be rotating the vane
slowly. I think that will solve some of the mystery.

-----Original Message-----
From: bounce-wxsig-20681@lists.tapr.org
[mailto:bounce-wxsig-20681@lists.tapr.org] On Behalf Of John Szkudlarek,
KA8FGE
Sent: Sunday, July 29, 2001 6:23 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: help with setting up 1-wire wx station sensor.

hi Russ,
Russ Chadwick wrote:
----- Original Message -----
From: John Szkudlarek, KA8FGE <ka8fge@dnaco.net>

To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Sunday, July 29, 2001 8:32 AM
Subject: [wxsig] help with setting up 1-wire wx station sensor.
> hello folks,
>
> i am having troubles setting up the 1-wire weather station
> sensors to my T-238.
>
> with the display showing 'rotate clockwise slowly 1/3
> --------' I then rotate the cups
> but nothing happens. pushing reset is the only way out. what
> should happen after
> rotating clockwise slowly 1/3?
Those dashes in the message should count from 1 to 8 three times. That
means that 8 directions have been found and that they were in the same
order
for three different rotations. You can just spin the wind vane by just
a
flick of your finger. You don't need to move it manually with your hand
on
it all the time.

after rotating the cups, the dashes never change.

> i never get to a menu for setup of wind direction.
>
After you get the count to 8 three times, you get a message saying to
point
the wind vane to north and press select.
> using the software from aag.com.mx and connecting my PC to
> the wind instrument, I see the readings for wind speed, wind
> direction and temperature okay.
> please note the wind instrument came with a note saying
> 'this V3.0 unit uses a different circuit to detect wind
> direction. It uses DS2450 based circuit instead of
> DS2407+(8) DS2401 circuit. for that reason is not
> compatible with previous software versions. this unit
> should be used with V3.0 compatible software.'
What version of the T-238 software are you using? I think that the
change
to T-238 software to include the new version of the AAG 1-Wire weather
station (V3.0) was 2 or 3 versions ago (end of March).

the chip says Ver 1.11.1

> also, the adapter for DB9 to RG11 says "DS9097U-S09 0042C
> 120961".
You do not need an adapter with the T-238. The RJ-11 should plug
directly
into the T-238. You should use an RJ-11 that only uses two wires.
Don't
use an RJ-11 that has 4 wires. All the testing that we have done so far
is
with two wires.

okay, it has 2 wire not 4.

Let us know what you find. We have not been able to do extensive
testing
with multiple units.

thats all for now, let me know what to do next
thanks, John.

Russ   KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

You are currently subscribed to wxsig as: ka8fge@dnaco.net
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

13. [wxsig] Re: help with setting up 1-wire wx station sensor.

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sun, 29 Jul 2001 17:32:38 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26798-2001.07.29-18.54.38--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

John,

The first software version that supported the new V3.0 AAG 1-Wire weather station was 1.12.1, which was quickly replaced by 1.12.2. From this web page,

http://www.beals5.com/wx/

you can download either 1.12.4 or 1.12.5 and both will work with the V3.0 AAG unit. If you need any help with the download, let us know.

Russ   KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

> ----- Original Message -----
> From: John Szkudlarek, KA8FGE
> To: TAPR WX Special Interest Group
> Sent: Sunday, July 29, 2001 5:23 PM
> Subject: [wxsig] Re: help with setting up 1-wire wx station sensor.
>
> hi Russ,
> Russ Chadwick wrote:
>
> > ----- Original Message -----
> > From: John Szkudlarek, KA8FGE <ka8fge@dnaco.net>
> > To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
> > Sent: Sunday, July 29, 2001 8:32 AM
> > Subject: [wxsig] help with setting up 1-wire wx station sensor.
> > > hello folks,
> > >
> > > i am having troubles setting up the 1-wire weather station
> > > sensors to my T-238.
> > >
> > > with the display showing 'rotate clockwise slowly 1/3
> > > --------' I then rotate the cups
> > > but nothing happens. pushing reset is the only way out. what
> > > should happen after
> > > rotating clockwise slowly 1/3?
> >
> > Those dashes in the message should count from 1 to 8 three times. That
> > means that 8 directions have been found and that they were in the same order
> > for three different rotations. You can just spin the wind vane by just a
> > flick of your finger. You don't need to move it manually with your hand on
> > it all the time.
>
> after rotating the cups, the dashes never change.
>
> > > i never get to a menu for setup of wind direction.
> > >
> > After you get the count to 8 three times, you get a message saying to point
> > the wind vane to north and press select.
> >
> > > using the software from aag.com.mx and connecting my PC to
> > > the wind instrument, I see the readings for wind speed, wind
> > > direction and temperature okay.
> >
> > > please note the wind instrument came with a note saying
> > > 'this V3.0 unit uses a different circuit to detect wind
> > > direction. It uses DS2450 based circuit instead of
> > > DS2407+(8) DS2401 circuit. for that reason is not
> > > compatible with previous software versions. this unit
> > > should be used with V3.0 compatible software.'
> >
> > What version of the T-238 software are you using? I think that the change
> > to T-238 software to include the new version of the AAG 1-Wire weather
> > station (V3.0) was 2 or 3 versions ago (end of March).
>
> the chip says Ver 1.11.1
>
> > > also, the adapter for DB9 to RG11 says "DS9097U-S09 0042C
> > > 120961".
> > You do not need an adapter with the T-238. The RJ-11 should plug directly
> > into the T-238. You should use an RJ-11 that only uses two wires. Don't
> > use an RJ-11 that has 4 wires. All the testing that we have done so far is
> > with two wires.

> okay, it has 2 wire not 4.
>
> Let us know what you find. We have not been able to do extensive testing
> with multiple units.
>
> thats all for now, let me know what to do next
> thanks, John.
>
> Russ   KB0TVJ
> Boulder, CO
> http://www.users.qwest.net/~crb5/
> ---
> You are currently subscribed to wxsig as: ka8fge@dnaco.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] Re: help with setting up 1-wire wx station sensor.

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sun, 29 Jul 2001 17:37:31 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26801-2001.07.29-19.02.18--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

John,

Kevin has a good eye. I didn't notice the reference to cups. You should be rotating the wind vane, not the anemometer cups.

However, you do need to upgrade the software as 1.11.1 won't work with the new AAG unit.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

> ----- Original Message -----
> From: Kevin Brown
> To: TAPR WX Special Interest Group
> Sent: Sunday, July 29, 2001 5:25 PM
> Subject: [wxsig] Re: help with setting up 1-wire wx station sensor.
>
> You shouldn't be rotating the cups. You should be rotating the vane slowly. I think that will solve some of the mystery.
>
> -----Original Message-----
> From: bounce-wxsig-20681@lists.tapr.org [mailto:bounce-wxsig-20681@lists.tapr.org] On Behalf Of John Szkudlarek, KA8FGE
> Sent: Sunday, July 29, 2001 6:23 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: help with setting up 1-wire wx station sensor.
>
> hi Russ,
>
> Russ Chadwick wrote:
>
> > ----- Original Message -----
> > From: John Szkudlarek, KA8FGE <ka8fge@dnaco.net>
> > To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
> > Sent: Sunday, July 29, 2001 8:32 AM
> > Subject: [wxsig] help with setting up 1-wire wx station sensor.
> >
> > > hello folks,
> > >
> > > i am having troubles setting up the 1-wire weather station
> > > sensors to my T-238.
> > >
> > > with the display showing 'rotate clockwise slowly 1/3
> > > --------' I then rotate the cups
> > > but nothing happens. pushing reset is the only way out. what

> should happen after
> rotating clockwise slowly 1/3?

Those dashes in the message should count from 1 to 8 three times. That means that 8 directions have been found and that they were in the same order for three different rotations. You can just spin the wind vane by just a flick of your finger. You don't need to move it manually with your hand on it all the time.

after rotating the cups, the dashes never change.

> i never get to a menu for setup of wind direction.
>

After you get the count to 8 three times, you get a message saying to point the wind vane to north and press select.

> using the software from aag.com.mx and connecting my PC to
> the wind instrument, I see the readings for wind speed, wind
> direction and temperature okay.

> please note the wind instrument came with a note saying
> 'this V3.0 unit uses a different circuit to detect wind
> direction. It uses DS2450 based circuit instead of
> DS2407+(8) DS2401 circuit. for that reason is not
> compatible with previous software versions. this unit
> should be used with V3.0 compatible software.'

What version of the T-238 software are you using? I think that the change to T-238 software to include the new version of the AAG 1-Wire weather station (V3.0) was 2 or 3 versions ago (end of March).

the chip says Ver 1.11.1

> also, the adapter for DB9 to RG11 says "DS9097U-S09 0042C
> 120961".

You do not need an adapter with the T-238. The RJ-11 should plug directly into the T-238. You should use an RJ-11 that only uses two wires. Don't use an RJ-11 that has 4 wires. All the testing that we have done so far is with two wires.

okay, it has 2 wire not 4.

Let us know what you find. We have not been able to do extensive testing with multiple units.

thats all for now, let me know what to do next
thanks, John.

Russ KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

You are currently subscribed to wxsig as: ka8fge@dnaco.net
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] Re: help with setting up 1-wire wx station sensor.

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Mon, 30 Jul 2001 08:09:39 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26879-2001.07.30-08.32.31--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

John, I had a persistant problem with this just as you describe.
Others were not seeing it and I grew quite frustrated. As it turns out
it was a software bug that only affected a few systems with certain
range of ID#s on one of the onewire chips. If you upgrade to the latest
version this problem will go away.
Bill, N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] RH - finally

From: "Clay Bartholow" <w0led@arrl.net>
Date: Mon, 30 Jul 2001 9:55:34
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26895-2001.07.30-10.17.31--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have finally upgraded my T238 to v.1.12.5 and re-connected the RH sensor.
 Everything has been running just fine for about 48 hours. I'm still
keeping my fingers crossed but it's looking good. Nothing earth-shaking in
this -- I'm just glad it finally came together here at W0LED-1. Now I have
to get around to putting together the rain gauge and finding a good spot
for it (so far the best place looks like it's right in the middle of the
driveway).

Next, the BP sensor...

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

17. [wxsig] Re: help with setting up 1-wire wx station sensor.

From: "John Szkudlarek, KA8FGE" <ka8fge@dnaco.net>
Date: Mon, 30 Jul 2001 20:01:52 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26947-2001.07.30-19.19.40--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Russ,
i tried updating the firmware but got no message on the
display stating the monitor version number.

so I've downloaded the winIDE development software from pe
micro. i need some hints on how to
reprogram the microprocessor (TAPR t-238 weather station).

thanks, John.

Russ Chadwick wrote:

> John, The first software version that supported the new
> V3.0 AAG 1-Wire weather station was 1.12.1, which was
> quickly replaced by 1.12.2. From this web
> page, http://www.beals5.com/wx/ you can download either
> 1.12.4 or 1.12.5 and both will work with the V3.0 AAG
> unit. If you need any help with the download, let us
> know.
> Russ   KB0TVJ
> Boulder, CO
> http://www.users.qwest.net/~crb5/
>
>   ----- Original Message -----
>   From: John Szkudlarek, KA8FGE
>   To: TAPR WX Special Interest Group
>   Sent: Sunday, July 29, 2001 5:23 PM
>   Subject: [wxsig] Re: help with setting up 1-wire
>   wx station sensor.
>
>
>
>   hi Russ,
>
>   Russ Chadwick wrote:
>
>   > ----- Original Message -----
>   > From: John Szkudlarek, KA8FGE
>   > <ka8fge@dnaco.net>
>   > To: TAPR WX Special Interest Group
>   > <wxsig@lists.tapr.org>
>   > Sent: Sunday, July 29, 2001 8:32 AM
>   > Subject: [wxsig] help with setting up 1-wire
>   > wx station sensor.
>   >

> > > hello folks,
> > >
> > > i am having troubles setting up the 1-wire
> > weather station
> > > sensors to my T-238.
> > >
> > > with the display showing 'rotate clockwise
> > slowly 1/3
> > > --------' I then rotate the cups
> > > but nothing happens. pushing reset is the
> > only way out. what
> > > should happen after
> > > rotating clockwise slowly 1/3?
> > >
> > Those dashes in the message should count from
> > 1 to 8 three times. That
> > means that 8 directions have been found and
> > that they were in the same order
> > for three different rotations. You can just
> > spin the wind vane by just a
> > flick of your finger. You don't need to move
> > it manually with your hand on
> > it all the time.
> > >
>
> after rotating the cups, the dashes never
> change.
>
> >
> > > i never get to a menu for setup of wind
> > direction.
> > > >
> > >
> > After you get the count to 8 three times, you
> > get a message saying to point
> > the wind vane to north and press select.
> > >
> > > using the software from aag.com.mx and
> > connecting my PC to
> > > the wind instrument, I see the readings for
> > wind speed, wind
> > > direction and temperature okay.
> > >
> > > please note the wind instrument came with a
> > note saying
> > > 'this V3.0 unit uses a different circuit to
> > detect wind
> > > direction. It uses DS2450 based circuit
> > instead of
> > > DS2407+(8) DS2401 circuit. for that reason
> > is not
> > > compatible with previous software versions.
> > this unit
> > > should be used with V3.0 compatible
> > software.'
> > >
> > What version of the T-238 software are you
> > using? I think that the change
> > to T-238 software to include the new version
> > of the AAG 1-Wire weather
> > station (V3.0) was 2 or 3 versions ago (end of
> > March).
> > >
>
> the chip says Ver 1.11.1
>
> >
> > > also, the adapter for DB9 to RG11 says
> > "DS9097U-S09 0042C
> > > 120961".
> > >
> > You do not need an adapter with the T-238.
> > The RJ-11 should plug directly
> > into the T-238. You should use an RJ-11 that
> > only uses two wires. Don't
> > use an RJ-11 that has 4 wires. All the
> > testing that we have done so far is
> > with two wires.
>

> >
> > okay, it has 2 wire not 4.
> >
> >
> > Let us know what you find. We have not been
> > able to do extensive testing
> > with multiple units.
> >
> thats all for now, let me know what to do next
> thanks, John.
> >
> >
> > Russ   KB0TVJ
> > Boulder, CO
> > http://www.users.qwest.net/~crb5/
> >
> > ---
> > You are currently subscribed to wxsig as:
> > ka8fge@dnaco.net
> > To unsubscribe send a blank email to
> > leave-wxsig-15067P@lists.tapr.org
>

18. [wxsig] Re: Max cable length

From: "Bill Gray" <bill.gray@thot.net>
Date: Mon, 30 Jul 2001 19:59:16
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26955-2001.07.30-20.21.18--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have just solved this problem for a 500+ foot run. the solution
was to use higher quality cable. Originally I used regular outdoor
telephoine cable. It didn't work. I changed to category 5e twisted
and the problem was immediately eliminated.

Bill Gray
North Bay, Ontario

On 07/18/01, "Gerry Creager N5JXS <gerry@cs.tamu.edu>" wrote:
> First, my T238 isn't tied in with 500 feet of cable, so I'm talking
> somewhat theoretically, but I've had to deal with this in other
> instrumentation issues before.
>
> Just off the top of my head, I'm pretty sure that, unless he took some
> pretty significant precautions, he's seeing a LOT of common mode
> interference on a 500 foot run of cable.
>
> If I had to go that far, I'd be looking at all the precautions
> associated with CM rejetion, including source-end common point shield
> grounding, shielded twisted pair cable and appropriate intermediate line
> drivers and bypassing.
>
> This is a hard nut to crack in my experience.
>
> gerry
> --
> William Beals wrote:
> >
> > Folks:
> >
> > I got an email from a person who is having trouble with his setup. One of
> > the things he is trying is a 500-foot cable. I know Russ has had some
> > issues when he had some long cables, but he was also dealing with some
> > branching issues.
> >
> > I'm curious who out there has managed to get some long cable runs working
> > and you have any sneaky tricks to get it. I've only pushed my luck to about
> > 100 feet of cable.
> > --
> > Gerry Creager -- gerry@cs.tamu.edu
> > Network Engineering |Research focusing on
> > Academy for Advanced Telecommunications |Satellite Geodesy and
> > and Learning Technologies |Geodetic Control
> > Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

19. [wxsig] Re: Max cable length

From: Arnold Harding <kq6di@home.com>
Date: Mon, 30 Jul 2001 18:06:55 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26956-2001.07.30-20.29.04--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Did you pick any particular pair in the cable, or the first easiest
pair to terminate?
Thanks, Arnold Harding

Bill Gray wrote:
>
> I have just solved this problem for a 500+ foot run. the solution
> was to use higher quality cable. Originally I used regular outdoor
> telephoine cable. It didn't work. I changed to category 5e twisted
> and the problem was immediately eliminated.
>
> Bill Gray
> North Bay, Ontario

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

20. [wxsig] Re: Max cable length

From: "Bill Gray" <bill.gray@thot.net>
Date: Mon, 30 Jul 2001 20:11:25
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26957-2001.07.30-20.33.20--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The pair didn't matter. I liked blue so I used the blue pair. I also
the connections to the PCB so that there would be no chance of corrosion
or jiggling loose (it's up an 80 foot tower).

Bill Gray
North Bay, Ontario

On 07/30/01, "Arnold Harding <kq6di@home.com>" wrote:
> Did you pick any particular pair in the cable, or the first easiest
> pair to terminate?
> Thanks, Arnold Harding
>
> Bill Gray wrote:
> >
> > I have just solved this problem for a 500+ foot run. the solution
> > was to use higher quality cable. Originally I used regular outdoor
> > telephoine cable. It didn't work. I changed to category 5e twisted
> > and the problem was immediately eliminated.
> >
> > Bill Gray
> > North Bay, Ontario

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

21. [wxsig] RE: RH - finally

From: "William Beals" <will@beals5.com>
Date: Mon, 30 Jul 2001 20:02:24 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26963-2001.07.30-21.19.40--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay:

Glad the upgrade worked. We have a bit of a phasing problem between old
firmware in the production boards and new hardware.

Looking forward to BP too. Looks like the Dallas folk are still haggling
out the HW design...

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Clay Bartholow

Sent: Monday, July 30, 2001 9:56 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] RH - finally

I have finally upgraded my T238 to v.1.12.5 and re-connected the RH sensor.
 Everything has been running just fine for about 48 hours. I'm still
keeping my fingers crossed but it's looking good. Nothing earth-shaking in
this -- I'm just glad it finally came together here at W0LED-1. Now I have
to get around to putting together the rain gauge and finding a good spot
for it (so far the best place looks like it's right in the middle of the
driveway).

Next, the BP sensor...

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

22. [wxsig] Re: help with setting up 1-wire wx station sensor.

From: "William Beals" <will@beals5.com>
Date: Mon, 30 Jul 2001 20:02:32 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-26964-2001.07.30-21.20.03--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

John:

For the WinIDE development tools your best bet is to stick with the simple
way first. Just bring up the programming tool and point it to the .s19 file
rather than going through the compilation process. There is nothing weird
about the process other than it would be nice to introduce one less variable
to the process of getting you up and running.

Before you start, the version should be displayed on the second line when
the menu time is "display current data". If you get that menu item without
the version below, you are running older SW before I put the data on that
screen.

To get the T238 into the WinIDE download mode you will need to move the two
configuration jumpers OJ1 and OJ2 from the left side to the right side. Be
sure to put them back after programming. First erase the flash, then
program it. One of the downsides to WinIDE programming is that any flash
variables will be erased and you will need to re-run the calibration
routines. Not a big deal for you now, but when you weather station is on
top of a pole and you need to "point north", that can be tough.

will
  -----Original Message-----
  From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of John Szkudlarek,
KA8FGE
  Sent: Monday, July 30, 2001 6:02 PM
  To: TAPR WX Special Interest Group
  Subject: [wxsig] Re: help with setting up 1-wire wx station sensor.

  Hi Russ,
  i tried updating the firmware but got no message on the display stating
the monitor version number.
  so I've downloaded the winIDE development software from pe micro. i need
some hints on how to
  reprogram the microprocessor (TAPR t-238 weather station).

  thanks, John.

  Russ Chadwick wrote:

    John, The first software version that supported the new V3.0 AAG 1-Wire
weather station was 1.12.1, which was quickly replaced by 1.12.2. From this
web page, http://www.beals5.com/wx/ you can download either 1.12.4 or 1.12.5
and both will work with the V3.0 AAG unit. If you need any help with the
download, let us know.

Russ   KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/
----- Original Message -----
From: John Szkudlarek, KA8FGE
To: TAPR WX Special Interest Group
Sent: Sunday, July 29, 2001 5:23 PM
Subject: [wxsig] Re: help with setting up 1-wire wx station sensor.

hi Russ,

Russ Chadwick wrote:

----- Original Message -----
From: John Szkudlarek, KA8FGE <ka8fge@dnaco.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Sunday, July 29, 2001 8:32 AM
Subject: [wxsig] help with setting up 1-wire wx station sensor.
> hello folks,
>
> i am having troubles setting up the 1-wire weather station
> sensors to my T-238.
>
> with the display showing 'rotate clockwise slowly 1/3
> --------' I then rotate the cups
> but nothing happens. pushing reset is the only way out. what
> should happen after
> rotating clockwise slowly 1/3?

Those dashes in the message should count from 1 to 8 three times. That means that 8 directions have been found and that they were in the same order for three different rotations. You can just spin the wind vane by just a flick of your finger. You don't need to move it manually with your hand on it all the time.

after rotating the cups, the dashes never change.

> i never get to a menu for setup of wind direction.
>
After you get the count to 8 three times, you get a message saying to point the wind vane to north and press select.

> using the software from aag.com.mx and connecting my PC to
> the wind instrument, I see the readings for wind speed, wind
> direction and temperature okay.

> please note the wind instrument came with a note saying
> 'this V3.0 unit uses a different circuit to detect wind
> direction. It uses DS2450 based circuit instead of
> DS2407+(8) DS2401 circuit. for that reason is not
> compatible with previous software versions. this unit
> should be used with V3.0 compatible software.'

What version of the T-238 software are you using? I think that the change to T-238 software to include the new version of the AAG 1-Wire weather station (V3.0) was 2 or 3 versions ago (end of March).

the chip says Ver 1.11.1

> also, the adapter for DB9 to RG11 says "DS9097U-S09 0042C
> 120961".
You do not need an adapter with the T-238. The RJ-11 should plug directly into the T-238. You should use an RJ-11 that only uses two wires. Don't use an RJ-11 that has 4 wires. All the testing that we have done so far is with two wires.

```
        okay, it has 2 wire not 4.

        Let us know what you find.  We have not been able to do extensive
testing
        with multiple units.
      thats all for now, let me know what to do next
      thanks, John.

        Russ   KB0TVJ
        Boulder, CO
        http://www.users.qwest.net/~crb5/
        ---
        You are currently subscribed to wxsig as: ka8fge@dnaco.net
        To unsubscribe send a blank email to
leave-wxsig-15067P@lists.tapr.org
```

August 2001

Original source file: wxsig.0108
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0108

1. [wxsig] Please changey my email address

From: "dale" <darrigo@san.rr.com>
Date: Wed, 1 Aug 2001 12:35:06 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-27337-2001.08.01-14.55.50--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Please if you would change my email address to: darrigo@san.rr.com.

Thankyou,

Dale

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Screen on rain gauge

From: "William Beals" <will@beals5.com>
Date: Mon, 6 Aug 2001 14:10:53 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-28502-2001.08.06-20.58.32--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Just some information for those with rain gauges. I have mine on the top of my roof, about 20 feet above the ground and probably 75+ feet from the nearest tree higher than the rain gauge. With such data I reasoned that a screen wouldn't be that important. I was wrong.

My rain gauge quit working several weeks ago and I finally ventured up to the roof this weekend to see what the problem was. I had something that looked like tree seeds that had landed in the bucket and plugged the gauge. Of further interest, there was probably close to an eighth of an inch of mud that had caked up on top of the plug. We do occasionally get some wicked wind storms blow through and I guess they kicked up enough gunk to plug the gauge.

If you don't have a screen covering your rain gauge, some further data to suggest that you might want to consider it. I'll be making a couple of them shortly.

will

==
This message sent using 100% recycled electrons.
(Minimum 30% post-consumer content)
==
Will Beals (mobile)
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Re: Screen on rain gauge

From: "Gerald Payton" <n5gpc@earthlink.net>
Date: Mon, 6 Aug 2001 21:04:57 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-28514-2001.08.06-21.28.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Amen! Birds will occasionally leave their deposit containing seeds. The deposit may wash away, but the seed remains.

Jerry N5GPC

----- Original Message -----
From: "William Beals" <will@beals5.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Monday, August 06, 2001 3:10 PM
Subject: [wxsig] Screen on rain gauge

> Folks:
>
> Just some information for those with rain gauges. I have mine on the top
of
> my roof, about 20 feet above the ground and probably 75+ feet from the
> nearest tree higher than the rain gauge. With such data I reasoned that a
> screen wouldn't be that important. I was wrong.
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> My rain gauge quit working several weeks ago and I finally ventured up to
> the roof this weekend to see what the problem was. I had something that
> looked like tree seeds that had landed in the bucket and plugged the
gauge.
> Of further interest, there was probably close to an eighth of an inch of
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> that had caked up on top of the plug. We do occasionally get some wicked
> wind storms blow through and I guess they kicked up enough gunk to plug
the
> gauge.
>
> If you don't have a screen covering your rain gauge, some further data to
> suggest that you might want to consider it. I'll be making a couple of
them
> shortly.
>
> will
>
> ==
> This message sent using 100% recycled electrons.
> (Minimum 30% post-consumer content)
> ==
> Will Beals (mobile)
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
>
> ---
> You are currently subscribed to wxsig as: n5gpc@earthlink.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] Re: Screen on rain gauge

From: "Kurt O. Jauss" <kf6hjo@earthlink.net>
Date: Mon, 06 Aug 2001 19:32:10 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-28520-2001.08.06-21.53.44--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

You also have to watch out for bird "gifts"

William Beals wrote:

> Folks:
>
> Just some information for those with rain gauges. I have mine on the top of
> my roof, about 20 feet above the ground and probably 75+ feet from the
> nearest tree higher than the rain gauge. With such data I reasoned that a
> screen wouldn't be that important. I was wrong.
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> ==
> Will Beals (mobile)
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
> -

--
  Kurt O. Jauss
     kf6hjo@earthlink.net
         3630.45N 11940.50W   144.39Mhz
        Selma Ca.   {APRS Weather & GPS Tracker}
    SKYWARN member Hanford Ca. NWS
               DOSAPRS/WAPRS/APRS+SA
  Want to find my truck? http://www.findu.com/cgi-bin/find.cgi?kf6hjo-9

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] Re: Screen on rain gauge

From: Alan Heaberlin <w6amh@yahoo.com>
Date: Mon, 6 Aug 2001 19:44:06 -0700 (PDT)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-28524-2001.08.06-22.06.22--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Around here we're watching out for killer bees...
They'll make a nest on an old hub cap!
Alan Heaberlin W6AMH
Mojave Desert

_____
Do You Yahoo!?
Make international calls for as low as $.04/minute with Yahoo! Messenger
http://phonecard.yahoo.com/

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] Re: Screen on rain gauge

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Tue, 07 Aug 2001 07:47:39 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-28615-2001.08.07-08.10.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

What is this "rain" someone please send us some as I forgot what it is.
N5ZTW in a very dry central Texas.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] RE: Screen on rain gauge

From: "clay bartholow" <clay.bartholow@neicoltech.org>
Date: Tue, 7 Aug 2001 10:17:25 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-28651-2001.08.07-11.01.21--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

What impact does screening have on operation or calibration of the rain guage?

It seems to me that the addition of screening would allow the surface tension of the impinging rain water to block (at least part of) the rain guage opening and cause errors in measured rainfall. And if it catches bird poo-poo (which then dries) then there is an additional blockage. If dust is a problem, can't it still sift down through the screening and accumulate in the rain guage?

Is there a minimim/maximum mesh size appropriate for this application?

Is there a reasonable solution beyond occasional cleaning?

Clay W0LED

> -----Original Message-----
> From: bounce-wxsig-18179@lists.tapr.org
> [mailto:bounce-wxsig-18179@lists.tapr.org]On Behalf Of William Beals
> Sent: Monday, August 06, 2001 3:11 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Screen on rain gauge
>
>
> Folks:
>
> Just some information for those with rain gauges. I have mine on
> the top of
> my roof, about 20 feet above the ground and probably 75+ feet from the
> nearest tree higher than the rain gauge. With such data I reasoned that a
> screen wouldn't be that important. I was wrong.
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> the roof this weekend to see what the problem was. I had something that
> looked like tree seeds that had landed in the bucket and plugged
> the gauge.
> Of further interest, there was probably close to an eighth of an
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> that had caked up on top of the plug. We do occasionally get some wicked
> wind storms blow through and I guess they kicked up enough gunk
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> (Minimum 30% post-consumer content)
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> Will Beals (mobile)
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
>
> ---
> You are currently subscribed to wxsig as: w0led@arrl.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] RE: Screen on rain gauge

From: "Gerald Payton" <n5gpc@earthlink.net>
Date: Tue, 7 Aug 2001 10:50:28 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-28652-2001.08.07-11.12.53--lyris.wxsig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

All very good questions. I only know that two different rain gauges
(bucket dump type) each had a piece of standard window screen laying just
inside the large opening. As you know, the rain opening more or less
funnels down into a very small outlet to route the rain to the buckets.
This is typically where the stoppage occurs due to the small orifice.

I don't think accuracy is an issue. The whole weather system has an
plus/minus error factor anyway.

Jerry N5GPC

----- Original Message -----
From: "clay bartholow" <clay.bartholow@neicoltech.org>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Tuesday, August 07, 2001 10:17 AM
Subject: [wxsig] RE: Screen on rain gauge

> What impact does screening have on operation or calibration of the rain
> guage?
>
> It seems to me that the addition of screening would allow the surface
> tension of the impinging rain water to block (at least part of) the rain
> guage opening and cause errors in measured rainfall. And if it catches
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> poo-poo (which then dries) then there is an additional blockage. If dust
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> the rain guage?
>
> Is there a minimim/maximum mesh size appropriate for this application?
>
> Is there a reasonable solution beyond occasional cleaning?
>
> Clay W0LED
>
>
> > -----Original Message-----
> > From: bounce-wxsig-18179@lists.tapr.org
> > [mailto:bounce-wxsig-18179@lists.tapr.org]On Behalf Of William Beals
> > Sent: Monday, August 06, 2001 3:11 PM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] Screen on rain gauge
> >
> >
> > Folks:
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> > Just some information for those with rain gauges. I have mine on
> > the top of
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> > (Minimum 30% post-consumer content)
> > ==
> > Will Beals (mobile)
> > 15014 East Idaho Place
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> > 303-755-0293
> > will@beals5.com
> >
> >
> > ---
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You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] RE: Screen on rain gauge

From: "Kurt O. Jauss" <kf6hjo@earthlink.net>
Date: Tue, 07 Aug 2001 09:39:53 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-28660-2001.08.07-12.01.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have several PEET rain gauges. 3 8" diameter tip buckets and 2 4"
diameter metered drip type. The tip type came with a plastic screen with
approximately 1/32 holes that sits at the bottom of the bucket. The metered
type come with a very small diameter screen built in. Even though they all sit
in a very dusty areas, the first rain of the season seems to wash all the dust
away and has no effect on it's accuracy.

Gerald Payton wrote:

> All very good questions. I only know that two different rain gauges
> (bucket dump type) each had a piece of standard window screen laying just
> inside the large opening. As you know, the rain opening more or less
> funnels down into a very small outlet to route the rain to the buckets.
> This is typically where the stoppage occurs due to the small orifice.
>
> I don't think accuracy is an issue. The whole weather system has an
> plus/minus error factor anyway.
>
> Jerry N5GPC
>

<snip>

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> > Clay W0LED
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> <snip>
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> > > Aurora, CO 80012
> > > 303-755-0293
> > > will@beals5.com
>

--
  Kurt O. Jauss
     kf6hjo@earthlink.net
         3630.45N 11940.50W   144.39Mhz
       Selma Ca.   {APRS Weather & GPS Tracker}
    SKYWARN member Hanford Ca. NWS
              DOSAPRS/WAPRS/APRS+SA
  Want to find my truck? http://www.findu.com/cgi-bin/find.cgi?kf6hjo-9

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10. [wxsig] Screen questions

From: "William Beals" <will@beals5.com>
Date: Wed, 8 Aug 2001 19:51:26 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-28998-2001.08.08-21.08.57--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay:

Here is my take on answering your questions:

1) You are correct that a screen may introduce a slight offset in the rain
amount detected, but this should be negligible. It should be no worse than
the offset generated simply by having the water beads on the funnel itself.
If it is only a light sprinkling of rain it won't show up as measurable rain
anyway.

2) Hopefully the bird poo-poo will first stick to the screen then get slowly
dissolved while going down the hole rather than a big plunk of poo-poo that
would plug it.

3) I think the dust was only a secondary effect in my case. The tree seed
plugged the hole so the dust could not get washed down in the "normal
manner".

4) Dust in the rain gauge should not be an issue as it will get washed out
and is not plugging anything up at that point.

5) I will go for just regular wire screen mesh, about 1mm spacing or so as
Jerry suggests.

will

==========
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(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

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11. [wxsig] External Temp and RH Sensors

From: "David Meadows" <david.meadows@sympatico.ca>
Date: Mon, 13 Aug 2001 21:40:52
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-29846-2001.08.13-22.03.27--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am trying to determine Dallas identifier numbers for the following:

1. External (additional) iButton Temp sensor. Is the DS1920F-5 a
replacement for the DS18S20? What is the sensor number I should order in
any event?

2. External iButton humidity sensor. Should I be ordering a DSHS01K
Humidity sensor kit or should I be ordering another unit?

The T-238 is a great kit with no surprizes so far, appreciate the great
amount of time and effort put into the project.

Cheers
David Meadows
VE3AFZ

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] RE: External Temp and RH Sensors

From: "William Beals" <will@beals5.com>
Date: Mon, 13 Aug 2001 21:16:34 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-29849-2001.08.13-22.33.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

David:

I have not messed with the DS1920 yet for the T238 firmware, so if it has a
different family ID from the DS1820 or DS18S20, then the firmware will not
recognize it.

I checked Dallas's website, the family IDs for the DS1920 and DS1820 are the
same, you should be OK.

I have a couple of the humidity kits and they work fairly well. There are a
few limitations, the sensor can get saturated in high (>95%) humidity
conditions, but does recover fairly quickly. Russ has a lot of data that
points to the sensors giving good data as well.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of David Meadows
Sent: Monday, August 13, 2001 9:41 PM
To: TAPR WX Special Interest Group

Subject: [wxsig] External Temp and RH Sensors

I am trying to determine Dallas identifier numbers for the following:

1. External (additional) iButton Temp sensor. Is the DS1920F-5 a
replacement for the DS18S20? What is the sensor number I should order in
any event?

2. External iButton humidity sensor. Should I be ordering a DSHS01K
Humidity sensor kit or should I be ordering another unit?

The T-238 is a great kit with no surprizes so far, appreciate the great
amount of time and effort put into the project.

Cheers
David Meadows
VE3AFZ

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
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13. [wxsig] Weather Station to TNC interface

From: "Mike Myers\(kf6ihl\)" <kf6ihl@hotmail.com>
Date: Sat, 18 Aug 2001 17:15:03 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-30704-2001.08.18-19.37.56--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm not sure if someone has already addressed this issue, as of late I have
been tring to get my Weather Station interfaced with my TNC. I am using a
KPC3 Plus. I have tested, and replaced the 9 pin to 25 pin cable, and it
doesn't seem to be the problem. The issue is that for some reason, the TNC
will not listen, to the Weather Station, and I am not sure why. I am able
to use a null modem cable to see the output from the Weather Station (On the
TNC port) and I see both the setup, and the 5 minute beacons. I am also
able to manualy paste in the set up to the TNC, and then copy and paste the
becon text into the TNC, and it works fine. Just not sure why the TNC
doesn't like the WX Station. I am running the most resent code from the web
site. Anyone have any ideas? Thanks in advance.

-Mike

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] test

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sun, 19 Aug 2001 06:53:27 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-30727-2001.08.19-08.16.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

test

Russ KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] Re: Weather Station to TNC interface

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Mon, 20 Aug 2001 08:05:07 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-30814-2001.08.20-08.29.16--lyris.wxsig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Mike I also use the KPC3+ I had quite a few hours of frustration with
this. First of all I would need to see your tnc setup. I can give you
some examples that have worked well for me. Second remember that if you
change the baud rate because lets say you run 9600 on your terminal
program to set up the KPC3+ but you want 4800 for the wx station. Be
sure and sent a "reset" command or the change will not take. This bit me
once as I was switching between a terminal a one baud and the wx at
another. I was careful to do a "abaud" change as the last command but it
would not take unless you followed it with a "reset". Power down also
does a reset but I was just swaping 25 pin cables. Let me dump the
contents of my 3+ on to a file tonight and I will sent it out with notes
tommorow.
Bill N5ZTW

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] RE: Weather Station to TNC interface

From: "William Beals" <will@beals5.com>
Date: Mon, 20 Aug 2001 18:50:49 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-30958-2001.08.20-20.08.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mike:

Sorry to take so long to get back to you. For some reason even though you
posted the message on Saturday it didn't make it out of the reflector until
3am Monday morning. You were not being ignored.

In addition to Bills comments, make sure you are on the right connector on
the T238. There are two female connectors. Make sure you are on the center
one. The one on the end is for debug purposes only.

In terms of probability though, I'd bet on Bills suggestions on baud rates
and resets.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Mike
Myers(kf6ihl)
Sent: Saturday, August 18, 2001 6:15 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Weather Station to TNC interface

I'm not sure if someone has already addressed this issue, as of late I have
been tring to get my Weather Station interfaced with my TNC. I am using a
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doesn't like the WX Station. I am running the most resent code from the web
site. Anyone have any ideas? Thanks in advance.

-Mike

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

17. [wxsig] DCC Papers Due

From: John Ackermann N8UR <jra@febo.com>
Date: Tue, 21 Aug 2001 11:46:13 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-31159-2001.08.21-11.11.09--lyris.wxsig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Although the deadline for submitting papers to the ARRL/TAPR Digital
Communications Conference was officially August 6, we've arranged an
extension to allow more folks to get their papers in.

So, papers for the DCC Proceedings may be submitted to Maty Weinberg
(maty@arrl.org) at ARRL by close of business on Friday, August 24. There's
still room in the book and a wee bit of time available to make additions,
so please document your experiments, discoveries, proposals, and projects
related to digital communications and make them a part of the DCC -- just
do it quickly!

73,
John

John Ackermann N8UR jra@febo.com http://www.febo.com
President, TAPR n8ur@tapr.org http://www.tapr.org

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

18. [wxsig] RE: Weather Station to TNC interface

From: "Mike Myers" <kf6ihl@hotmail.com>
Date: Wed, 22 Aug 2001 11:07:34 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-31475-2001.08.22-13.30.50--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am sure that the baud rates are correct. The debug process I used for
checking that was trying both 9600 on the pc, getting it to talk with
the TNC, and then setting the uart on the t238, and testing it with a
null modem on the TNC port, seeing the data, and then dropping into the
menu, and connecting to the TNC. After 9600 didn't work, I set up for
4800 baud, and used a similar process. I have also set the abaud on the
TNC, so if you power cycle the TNC it comes up with the expected baud
rate. On the correct connector issue, I am plugged into the one marked
TNC. When I run the display current data command, and have the PC
plugged into this port (using a null modem), I see a set up command
sequence, followed by the software banner. If I wait five minutes, I
will also get the encoded position and weather data strings.

When I plugged my serial breakout box between the TNC and the T238, I
found that the T238 pulls the DTR low. I was wondering if that was
confusing the TNC into thinking it was not connected. Unfortunately, I
have not been able to find documentation on the KPC's behavior WRT the
DTR line.

I didn't think I was being ignored. Unfortunately during the week I
don't have too much time to play with my cool ham toys. This week I had
to fly up to Washington, (Normally I am in CA) I was only able to pop
onto the SIG because one of my meetings was cancelled. Thanks for the
help!

-Mike

-----Original Message-----
From: bounce-wxsig-22758@lists.tapr.org
[mailto:bounce-wxsig-22758@lists.tapr.org] On Behalf Of William Beals
Sent: Monday, August 20, 2001 5:51 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: Weather Station to TNC interface

Mike:

Sorry to take so long to get back to you. For some reason even though
you posted the message on Saturday it didn't make it out of the
reflector until 3am Monday morning. You were not being ignored.

In addition to Bills comments, make sure you are on the right connector
on the T238. There are two female connectors. Make sure you are on the
center one. The one on the end is for debug purposes only.

In terms of probability though, I'd bet on Bills suggestions on baud
rates and resets.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Mike
Myers(kf6ihl)
Sent: Saturday, August 18, 2001 6:15 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Weather Station to TNC interface

I'm not sure if someone has already addressed this issue, as of late I
have been tring to get my Weather Station interfaced with my TNC. I am
using a KPC3 Plus. I have tested, and replaced the 9 pin to 25 pin
cable, and it doesn't seem to be the problem. The issue is that for
some reason, the TNC will not listen, to the Weather Station, and I am
not sure why. I am able to use a null modem cable to see the output
from the Weather Station (On the TNC port) and I see both the setup, and
the 5 minute beacons. I am also able to manualy paste in the set up to
the TNC, and then copy and paste the becon text into the TNC, and it
works fine. Just not sure why the TNC doesn't like the WX Station. I
am running the most resent code from the web site. Anyone have any
ideas? Thanks in advance.

-Mike

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: kf6ihl@hotmail.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

19. [wxsig] Monitoring Battery Voltage

From: Doug <dbuhrman@radiks.net>
Date: Thu, 23 Aug 2001 18:42:24 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-31759-2001.08.23-19.05.47--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will:
Have you received any feedback on your feature to monitor battery voltage on Port B7? I wired up
the resistor divider circuit and couldn't get it to work. I tried 2 different T238 boards. I would
see a value of 14.5 or 7.5 volts. If I take that pin to ground it will read 0.8 volts. With the
o-scope I see switching activity on this pin but couldn't make out what was going on. Any ideas?

Doug   K0DSP

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

20. [wxsig] Re: Monitoring Battery Voltage

From: Ken Brown <Ken.Brown@ounnws.noaa.gov>
Date: Fri, 24 Aug 2001 13:35:42 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-31856-2001.08.24-08.58.57--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

I too have not been able to make the battery voltage monitor work
but have been so busy with some other things it has been on hold
for a while.

I tried the resistor values recommended and always got a "wandering"
voltage reading that was too high. I tried putting a capacitor
between the sense pin and ground in case there was noise pick up on
the line and this caused the reading to go and stay at a maximum
high value.

de N5KUK
--
Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

Doug wrote:
>
> Will:
> Have you received any feedback on your feature to monitor battery
> voltage on Port B7? I wired up the resistor divider circuit and
> couldn't get it to work. I tried 2 different T238 boards. I
> would > see a value of 14.5 or 7.5 volts. If I take that pin to
> ground it will read 0.8 volts. With the o-scope I see switching
> activity on this pin but couldn't make out what was going on.
> Any ideas?
>
> Doug   K0DSP
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

21. [wxsig] Re: Monitoring Battery Voltage

From: "Steve J Grudzinski" <sgrudzinski@lycos.com>
Date: Fri, 24 Aug 2001 08:08:52 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-31881-2001.08.24-10.32.18--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

A normal carbon resistor will change with heat, but you already knew that. I came into this topic late, so I don't know all what was done. Try using metal film resistors and do not place them into the engine compartment.

73,
Steve
AD6HT

Will,

I too have not been able to make the battery voltage monitor work
but have been so busy with some other things it has been on hold
for a while.

I tried the resistor values recommended and always got a "wandering"
voltage reading that was too high>Ken.Brown@ounnws.noaa.gov

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

22. [wxsig] RE: Monitoring Battery Voltage

From: "William Beals" <will@beals5.com>
Date: Fri, 24 Aug 2001 21:04:52 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-31966-2001.08.24-22.32.23--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Doug:

I have heard a little feedback, but not much. I suspect that this is due
primarily to not that many people implementing it though. There could still
be bugs. It seemed to work OK on my T238, I correlated the displayed
voltage with a DMM, but that is a sample quantity of one. I'm away from
home right now but will be back at home the middle of next week and take a
look to see if I see the same thing. From what you describe, it sounds like
a direction register is not programmed correctly.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org

[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Doug
Sent: Thursday, August 23, 2001 6:42 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Monitoring Battery Voltage

Will:
Have you received any feedback on your feature to monitor battery voltage on Port B7? I wired up the resistor divider circuit and couldn't get it to work. I tried 2 different T238 boards. I would see a value of 14.5 or 7.5 volts. If I take that pin to ground it will read 0.8 volts. With the o-scope I see switching activity on this pin but couldn't make out what was going on. Any ideas?

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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

23. [wxsig] RE: Weather Station to TNC interface

From: "William Beals" <will@beals5.com>
Date: Sat, 25 Aug 2001 09:36:36 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-32038-2001.08.25-11.30.06--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mike:

Seems like you are doing all the right stuff. BTW, the only difference between the TBN port and the Computer port is that I did the equivalent of a null modem adapter. The only active signals are Tx and Rx, I tied all the rest to what I thought were benign values. The good news is that there are a dozen folk that have the KPC3's working so hopefully it is a matter of some kind of setting on the TNC. The working version should be some kind of defaut for the TNC as I don't recall having to make any special provisions after a full reset.

I'm away from home right now, but could print out my settings if you wish.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Mike Myers
Sent: Wednesday, August 22, 2001 12:08 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: Weather Station to TNC interface

I am sure that the baud rates are correct. The debug process I used for checking that was trying both 9600 on the pc, getting it to talk with the TNC, and then setting the uart on the t238, and testing it with a null modem on the TNC port, seeing the data, and then dropping into the menu, and connecting to the TNC. After 9600 didn't work, I set up for 4800 baud, and used a similar process. I have also set the abaud on the TNC, so if you power cycle the TNC it comes up with the expected baud rate. On the correct connector issue, I am plugged into the one marked TNC. When I run the display current data command, and have the PC plugged into this port (using a null modem), I see a set up command sequence, followed by the software banner. If I wait five minutes, I will also get the encoded position and weather data strings.

When I plugged my serial breakout box between the TNC and the T238, I found that the T238 pulls the DTR low. I was wondering if that was confusing the TNC into thinking it was not connected. Unfortunately, I have not been able to find documentation on the KPC's behavior WRT the DTR line.

I didn't think I was being ignored. Unfortunately during the week I don't have too much time to play with my cool ham toys. This week I had

to fly up to Washington, (Normally I am in CA) I was only able to pop
onto the SIG because one of my meetings was cancelled. Thanks for the
help!

-Mike

-----Original Message-----
From: bounce-wxsig-22758@lists.tapr.org
[mailto:bounce-wxsig-22758@lists.tapr.org] On Behalf Of William Beals
Sent: Monday, August 20, 2001 5:51 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: Weather Station to TNC interface

Mike:

Sorry to take so long to get back to you. For some reason even though
you posted the message on Saturday it didn't make it out of the
reflector until 3am Monday morning. You were not being ignored.

In addition to Bills comments, make sure you are on the right connector
on the T238. There are two female connectors. Make sure you are on the
center one. The one on the end is for debug purposes only.

In terms of probability though, I'd bet on Bills suggestions on baud
rates and resets.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Mike
Myers(kf6ihl)
Sent: Saturday, August 18, 2001 6:15 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Weather Station to TNC interface

I'm not sure if someone has already addressed this issue, as of late I
have been tring to get my Weather Station interfaced with my TNC. I am
using a KPC3 Plus. I have tested, and replaced the 9 pin to 25 pin
cable, and it doesn't seem to be the problem. The issue is that for
some reason, the TNC will not listen, to the Weather Station, and I am
not sure why. I am able to use a null modem cable to see the output
from the Weather Station (On the TNC port) and I see both the setup, and
the 5 minute beacons. I am also able to manualy paste in the set up to
the TNC, and then copy and paste the becon text into the TNC, and it
works fine. Just not sure why the TNC doesn't like the WX Station. I
am running the most resent code from the web site. Anyone have any
ideas? Thanks in advance.

-Mike

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You are currently subscribed to wxsig as: will@beals5.com
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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

24. [wxsig] Re: Monitoring Battery Voltage

From: "William Beals" <will@beals5.com>
Date: Sat, 25 Aug 2001 09:54:18 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-32039-2001.08.25-11.30.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ken:

I'll take a look this weekend hopefully. It is entirely possible I messed
something up.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
Sent: Friday, August 24, 2001 7:36 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Monitoring Battery Voltage

Will,

I too have not been able to make the battery voltage monitor work
but have been so busy with some other things it has been on hold
for a while.

I tried the resistor values recommended and always got a "wandering"
voltage reading that was too high. I tried putting a capacitor
between the sense pin and ground in case there was noise pick up on
the line and this caused the reading to go and stay at a maximum
high value.

de N5KUK
--
Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

Doug wrote:
>
> Will:
> Have you received any feedback on your feature to monitor battery
> voltage on Port B7? I wired up the resistor divider circuit and
> couldn't get it to work. I tried 2 different T238 boards. I
> would > see a value of 14.5 or 7.5 volts. If I take that pin to
> ground it will read 0.8 volts. With the o-scope I see switching
> activity on this pin but couldn't make out what was going on.
> Any ideas?
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> Doug   K0DSP
>

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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

25. [wxsig] Re: Monitoring Battery Voltage

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sat, 25 Aug 2001 11:16:04 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-32051-2001.08.25-12.39.46--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

An additional item that some of you may not be aware of is that all of the
diagnostic messages from the 1-Wire/T238 weather stations sending data to
findu.com are posted to this web page hourly on the half hour,

http://www.users.qwest.net/~crb5/onewt238.html

The "battery voltage" measurements referred to below are part of this
diagnostic message. The voltage measurement posted is the one taken at the
first data period after the top of the hour. The value is in hex and the
format is explained on Will's web page accessible from the bottom of the
above web page.

The diagnostic data back to January of this year are in the archives which
are available on the web site.

Looking at the data, I see very little evidence of the problem mentioned.

However, these data are only once per hour and this is not like watching the
display. However, that may indicate that the problem is only with the
display and not with the diagnostic data that gets transmitted.

Russ   KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: William Beals <will@beals5.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Saturday, August 25, 2001 9:54 AM
Subject: [wxsig] Re: Monitoring Battery Voltage

> Ken:
>
> I'll take a look this weekend hopefully. It is entirely possible I messed
> something up.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
> Sent: Friday, August 24, 2001 7:36 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: Monitoring Battery Voltage
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>
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> Will,
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> I too have not been able to make the battery voltage monitor work
> but have been so busy with some other things it has been on hold
> for a while.
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> I tried the resistor values recommended and always got a "wandering"
> voltage reading that was too high. I tried putting a capacitor
> between the sense pin and ground in case there was noise pick up on
> the line and this caused the reading to go and stay at a maximum
> high value.
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> Kenneth A. Brown, WFO OUN, Norman OK
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> Doug wrote:
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>
> ---
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> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

26. [wxsig] RE: Weather Station to TNC interface

From: "Mike Myers\(kf6ihl\)" <kf6ihl@hotmail.com>
Date: Sat, 25 Aug 2001 20:55:54 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-32143-2001.08.25-23.19.42--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will, if it's not too much trouble, I would love a capture of a complete config. (Think it is the display command) I could then compair it to my config and see if I missed something foolish. From my point of view this should be working, and I can't for the life of me figure out why it isn't. In the mean time, I will go ahead and do a reset on the config, and see if I just do a basic config on it, if it will work. Thanks so much for the help.

-Mike

----- Original Message -----
From: "William Beals" <will@beals5.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Saturday, August 25, 2001 8:36 AM
Subject: [wxsig] RE: Weather Station to TNC interface

> Mike:
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> Seems like you are doing all the right stuff. BTW, the only difference
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> I'm away from home right now, but could print out my settings if you wish.
>
> will
>
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> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Mike Myers
> Sent: Wednesday, August 22, 2001 12:08 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: Weather Station to TNC interface
>
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> help!
>
> -Mike
>
> -----Original Message-----
> From: bounce-wxsig-22758@lists.tapr.org
> [mailto:bounce-wxsig-22758@lists.tapr.org] On Behalf Of William Beals

> Sent: Monday, August 20, 2001 5:51 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: Weather Station to TNC interface
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> Mike:
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> In terms of probability though, I'd bet on Bills suggestions on baud
> rates and resets.
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> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Mike
> Myers(kf6ihl)
> Sent: Saturday, August 18, 2001 6:15 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Weather Station to TNC interface
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> not sure why. I am able to use a null modem cable to see the output
> from the Weather Station (On the TNC port) and I see both the setup, and
> the 5 minute beacons. I am also able to manualy paste in the set up to
> the TNC, and then copy and paste the becon text into the TNC, and it
> works fine. Just not sure why the TNC doesn't like the WX Station. I
> am running the most resent code from the web site. Anyone have any
> ideas? Thanks in advance.
>
> -Mike
>
> ---
> You are currently subscribed to wxsig as: will@beals5.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
> ---
> You are currently subscribed to wxsig as: kf6ihl@hotmail.com
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>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

27. [wxsig] wireids.asm

From: "Bill Gray" <bill.gray@thot.net>
Date: Sun, 26 Aug 2001 10:18:48
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-32220-2001.08.26-10.42.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm looking for some advice on the correct format to enter the id
information into the assembly program. I have captured the id's form the
Dallas 1-wire weather station ini.txt file. they look like this ...

1C00000328959C01
5000000328C61001
7400000328C61F01
4500000328959F01
E400000328959701
D500000328C61701
D50000032895A301
0C000003289EE701
1300000000E8971D
6800000013401512
250000003682DE10

I have two questions:

1. the first is the assumptions about each of the codes .... based upon the
last two digits, it looks like:
 - the first 8 are the direction id's
 - the next is wind speed
 - the second from last is the unit id
 - the last is temperature

2.I cannot rell for certain if this is entered in reverse order into the
assembly code. It may be that they are entered in the reverse order.

Any advice?

Bill Gray

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
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28. [wxsig] Sensor IDs, etc.

From: "Clay Bartholow" <bc010001@mn.state.net>
Date: Sun, 26 Aug 2001 14:34:17 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-32289-2001.08.26-14.57.52--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill,

Here is an excerpt from a short treatise I created to document my tinkering
with the same sort of thing that you are looking at now. Ignore the
numbering, I was too lazy to do more than cut-and-paste this from the
original. I apologize for the formatting -- I copied this from my html doc
and when I put it here as plain text it got sorta "ugly". I think it
addresses at least some of your questions. Also, take a look at the
wireids.asm file for some other comments that Will has placed there. Hope
this helps...

73,

Clay W0LED

++

#11 Figure out what your wx sensor ids are. To do this you must have
    previously run the setup for the DalSemi wx station application.
    You can find out (after the fact) what the ids are for the temp
    sensor, the direction switch, and the wind speed counter by
    runnning the TMEX i-button Viewer application but the wind
    direction sensors are behind a DS2406/2407 switch and aren't
    (as far as I can tell) directly viewable (unless you write
    your own TMEX driver-based (or hand-hewn) software -- but
    that's beyond the scope of this note.)
    If you have previously calibrated your wx station under DalSemi
    WX2.05 or similar there should be a file called ini.txt in the
    DS application folder. This is a text file (no! really?) and
    you can open it and read it using Notepad or something similar.
    This is the way mine looks:
    600000044A62D201
    D40000044A62E101
    C30000044A62C901
    710000044A62CF01
    550000044A62C001
    0C0000044A62C301
    AF0000044A62D801
    E50000044A62D501
    6800000001395C1D

9900000015456312
3A0000004026F110
The first eight lines are the wind direction sensors in clockwise
order (viewed from the top of the wx station.) The first one is
not necessarily NORTH (in fact the sensor that most nearly
corresponds to NORTH in my list is the one in line 3.)
Line 9 is the wind speed counter id.
Line 10 is the direction switch id.
Line 11 is the temp sensor id.
(You can READ MORE about this in the above-referenced DalSemi wx
station list archives. Look for a thread between Rick Hampton
and Dan Awtrey.)
Each sensor id is an 8-byte value. Frankly, I don't recall which
byte is MSB but I do know that, as they are listed in the ini.txt
file, they are in reverse order from the way that you would place
them into the wireids.asm $IF USERS memory tables. Take, for
example, the temp sensor id:
As it appears in ini.txt (line 11)
3A0000004026F110
And after it has been loaded into the $IF USERS memory table at f800
fitemp: db $10,$f1,$26,$40,$00,$00,$00,$3a ; $f800...
Notice that Will has loaded the first (or last, depending on your
point of view) byte for each sensor into the $IF USERS tables to
help you stay focused. Thank you Will. All you have to do is load
the values from your ini.txt file into the tables. I found that
printing out ini.txt and then using a straightedge to draw vertical
lines through the data made it easier for me to keep from making
an error. Notice that there are two distinct areas in the tables
where you will enter the sensor ids.
*** NOW, FOR A BIG CAVEAT! ***
Notice the line in the memory table that looks like
fwdoff: db $ff,$ff,$ff,$ff,$ff,$ff,$ff,$ff ; $f828...
Recall that I indicated earlier that the first wind direction sensor
id listed in ini.txt did not necessarily correspond to NORTH. A
close reading of some of Will's comments in other of the .asm files
(wdir.asm as I recall) indicated (to me) that each wind direction
sample is resolved to a value of 0 to 15 through a process that you
can read about as well if you'd like to. I _THINK_ (and that
doesn't count for much) that fwdoff represents a value of 0 to 15
that is (somehow) applied against the listed direction sensor ids to
calibrate which of the sensors (or pair of sensors) is most closely
aligned with TRUE NORTH. As I recall, the T238 Operation Manual
describes this as the last step in a "normal" wx station wind
sensor calibration. (Oh, give me some coffee!)
Well, remember I said earlier that some of this was LUCKY reasoning!
I'm sorry, Will, but I couldn't figure out for sure how this was
done or if my guessing was even close. So, what I did, was make a
SWAG (punt, as it were.) Since I didn't know if this offset theory
was right or whether the LS nibble of this value was in straight
or twos-complement form I took the easy way (GULP!) out. I opted
for making the LS nibble = 0. If the value was a straight value
no problem; if it was in twos-complement form the most I'd be off
is fifteen degrees (I hypothesized.) ** THE PROBLEM ** if my idea
was right, with an offset of 0, I would have to re-order the wind
sensor ids in the $IF USERS data table. So I did. But I had a
pretty good idea which of the sensor ids matched up with NORTH.
What if you don't?
Well, there are a couple of ways that I tried. First, while
running the DalSemi wx station software, and connected to the
wx station via a serial port adapter (DS9097U), select Help.
At the top of the Help window you will see the sensor ids as
they are polled. Position the Help window, if necessary, to
see both the sensor ids and the wind direction indicator. If
you're lucky (and I admit I was!) the wind will be mostly out
of the north and you'll be able to spot which sensor (or
sensor pair) is most closely aligned with NORTH. If you're
not lucky (and I can't address that issue directly) you will
have to employ some deductive reasoning and cross your fingers.
There may also be a way to use the OPTIONS|REFERENCE tool in
the DS wx station application as well but I didn't play around
much with that because it didn't seem that I needed to. But,
if the wind won't cooperate with you, it might be worth a try.
You might also want to review the thread I indicated earlier
for the discussion between Rick Hampton, et al.
Once you have identified which sensor is closest to NORTH,
re-order the wind sensor ids. This is the way my list looked
after re-ordering:
C30000044A62C901
710000044A62CF01

```
550000044A62C001
0C0000044A62C301
AF0000044A62D801
E50000044A62D501
600000044A62D201
D40000044A62E101
6800000001395C1D
9900000015456312
3A0000004026F110
Notice how my NORTH sensor moved to the top of the list.  Notice
that the order remains in the same clockwise pattern.  And
_NOTICE_ that all of the wind sensor ids remain as the top eight
lines in the list.  Also notice that you don't have to actually
make this list if you can keep it all straight in your head.  I
just did this as an accounting measure in preparation for the
next step.



---
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```

29. [wxsig] Battery Voltage monitoring

From: "William Beals" <will@beals5.com>
Date: Sun, 26 Aug 2001 13:48:04 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-32290-2001.08.26-15.05.36--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

There clearly is a problem with the battery voltage monitoring. I added the circuitry per my own instructions (I no longer have the unit I did the original rework on) and I see the same thing reported by several folk on the reflector.

I tried a sneaky trick where I drive the pin most of the time and then not drive it for the short period where I digitize the data. This was supposed to keep the pin driven most of the time so for the folk without the circuitry won't have a floating CMOS input. I still think this idea will work (and knew it did work at one point).

I'm off on yet another business trip, so I'll hopefully have time to revisit the code and see if I can come up with a fix. I'm confident it will be a software fix no matter what, so the folk that have put in the resistors should be OK.

I am working on the 1.13.0 release that will have dew point support which is taking a while. More floating point math in assembly language. I'll add this fix to that list.

will


```
================================================
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
================================================
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com
```



```
---
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```


30. [wxsig] RE: Weather Station to TNC interface

From: "William Beals" <will@beals5.com>
Date: Sun, 26 Aug 2001 13:53:55 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-32292-2001.08.26-15.11.22--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mike (and all):

Here is how I have my KPC3+ set. Hope this helps isolate things.

```
cmd:display
8BITCONV ON
ABAUD    4800
AUTOLF   ON
AX25L2V2 ON
AXDELAY  0
AXHANG   0
BEACON   EVERY 43 min
BKONDEL  ON
BLT
1 EVERY 00:00:00
2 EVERY 00:00:00
3 EVERY 00:00:00
4 EVERY 00:00:00
BREAK    OFF
BTEXT    !3941.38N/10448.84W_
BUDLIST  OFF NONE
A Link state is: DISCONNECTED
CANLINE  $18 (CTRL-X)
CANPAC   $19 (CTRL-Y)
CD       SOFTWARE
CHECK    0 (disabled)
CMDTIME  1 (1 sec)
CMSG     ON
COMMAND  $03 (CTRL-C)
CONLIST  OFF NONE
CONMODE  CONVERS
CONOK    ON
CONPERM  OFF
CPACTIME OFF
CR       ON
CRSUP    OFF
CSTAMP   OFF
CTEXT    Rarely attended, best leave p-mail at N0XGA-1
CTRL     A OFF   B OFF
CWID     EVERY 0 (disabled)
CWIDTEXT DE N0XGA
DAYTIME  08/26/01 09:32:21
DAYTWEAK 8
DAYSTR   mm/dd/yy hh:mm:ss
DAMA     OFF
DAMACHCK 18 (180 sec)
DBLDISC  OFF
DELETE   $08 (CTRL-H)
DIGIPEAT ON
DWAIT    0
ECHO     ON
ESCAPE   OFF
FLOW     OFF
FILTER   OFF
FRACK    4 (4 sec)
FULLDUP  OFF
GPSHEAD
1
2
3
4
GPSINIT
HBAUD    1200
HEADERLN OFF
HID      OFF
HTEXT
INTFACE  TERMINAL
KNTIMER  15 min
LEDS     ON
LCOK     ON
LFADD    OFF
LFSUP    OFF
LLIST    OFF NONE
LT
1
2 $GPRMC,040702,A,3941.410,N,10448.838,W,005.8,242.5,111197,010.2,E*64

3
4
LTP
1 APRS VIA WIDE
2 APRS VIA WIDE
```

```
3 GPS
4 GPS
LTRACK   0
MONITOR  OFF
MALL     ON
MAXFRAME 4
MAXUSERS 10
MBEACON  ON
MCON     OFF
MCOM     OFF
MHEADER  ON
MRESP    OFF
MRPT     ON
MSTAMP   OFF
MXMIT    OFF
MYCALL   N0XGA
MYALIAS
MYDROP   0
MYNODE   N0XGA-7
MYPBBS   N0XGA-1
MYREMOTE
NDWILD   OFF
NEWMODE  ON
NOMODE   OFF
NTEXT
NUMNODES 0
PACLEN   128
PACTIME  AFTER 10 (1000 msec)
PASS     $16 (CTRL-V)
PASSALL  OFF
PBBS     100
PBFORWRD NONE  EVERY 0 (disabled)
PBHEADER ON
PBHOLD   ON
PBKILLFW OFF
PBLIST   OFF NONE
PBLO     OLD FIXED
PBPERSON OFF
PBREVERS ON
PERSIST  63 (25%)
PID      OFF
PMODE    CMD
PTEXT    Welcome to Wills PBBS.
REDISPLA $12 (CTRL-R)
RELINK   OFF
RETRY    10
RING     ON
RNRTIME  0 (disabled)
RTEXT
SCREENL  0
SENDPAC  $0D (CTRL-M)
SLOTTIME 10 (100 msec)
START    $11 (CTRL-Q)
STOP     $13 (CTRL-S)
STREAMSW $7C (|)
STREAMCA OFF
STREAMEV OFF
SUPLIST  OFF NONE
SWP      17,17,108
TELEMTRY 0 (disabled)
TRACE    OFF
TRFLOW   OFF
TRIES    10
TXDELAY  30 (300 msec)
TXFLOW   OFF
UNPROTO  APRSW VIA WIDE3-3
USERS    1
XFLOW    ON
XKCHKSUM OFF
XKPOLLED OFF
XMITLVL  72
XMITOK   ON
XOFF     $13 (CTRL-S)
XON      $11 (CTRL-Q)

will

---
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```

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31. [wxsig] RE: wireids.asm

From: "William Beals" <will@beals5.com>
Date: Sun, 26 Aug 2001 14:16:51 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-32296-2001.08.26-15.34.20--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay:

I still don't know how to translate the Dallas info file into the format
needed for T238. Having all the sensor IDs gets you most of the way there,
but not 100%.

You are correct about the types of IDs. Yes, I list them in my wireids.asm
file in the order that I get them from the device which means they come out
reversed from the way they are listed in the Dallas file. (Sounds like the
big-endian/little endian battle!) In any event, you have the eight
direction sensor IDs as well as the other sensor IDs too.
1) ID 01 is the wind direction sensors
2) ID 10 is the temperature sensor ID
3) ID 12 is the wind direction switch (this is important!)
4) ID 1d is the wind speed counter.

That is all the sensor IDs, trouble is (as Clay points out) knowing which ID
(or pair) is north. I've never understood where that information is.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Gray
Sent: Sunday, August 26, 2001 10:19 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] wireids.asm

I'm looking for some advice on the correct format to enter the id
information into the assembly program. I have captured the id's form the
Dallas 1-wire weather station ini.txt file. they look like this ...
1C00000328959C01
5000000328C61001
7400000328C61F01
4500000328959F01
E400000328959701
D500000328C61701
D50000032895A301
0C000003289EE701
1300000000E8971D
6800000013401512
250000003682DE10

I have two questions:

1. the first is the assumptions about each of the codes .... based upon the
last two digits, it looks like:
 - the first 8 are the direction id's
 - the next is wind speed
 - the second from last is the unit id
 - the last is temperature

2.I cannot rell for certain if this is entered in reverse order into the
assembly code. It may be that they are entered in the reverse order.

Any advice?

Bill Gray

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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
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32. [wxsig] RE: wireids.asm

From: "William Beals" <will@beals5.com>
Date: Sun, 26 Aug 2001 14:17:55 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-32297-2001.08.26-15.35.23--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill:

After re-reading Clays email I need to make it clear what the fwdoff
variable means. I've forgotten, so I'll re-derive it and explain shortly.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Gray
Sent: Sunday, August 26, 2001 10:19 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] wireids.asm

I'm looking for some advice on the correct format to enter the id
information into the assembly program. I have captured the id's form the
Dallas 1-wire weather station ini.txt file. they look like this ...
1C00000328959C01
5000000328C61001
7400000328C61F01
4500000328959F01
E400000328959701
D500000328C61701
D50000032895A301
0C000003289EE701
1300000000E8971D
6800000013401512
250000003682DE10

I have two questions:

1. the first is the assumptions about each of the codes .... based upon the
last two digits, it looks like:
 - the first 8 are the direction id's
 - the next is wind speed
 - the second from last is the unit id
 - the last is temperature

2.I cannot rell for certain if this is entered in reverse order into the
assembly code. It may be that they are entered in the reverse order.

Any advice?

Bill Gray

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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

33. [wxsig] Re: Sensor IDs, etc.

From: "Bill Gray" <bill.gray@thot.net>
Date: Mon, 27 Aug 2001 9:41:13
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-32503-2001.08.27-10.04.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks Clay. This is good info (along with Will's note) should help a
lot.

Bill Gray

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

34. [wxsig] RE: Weather Station to TNC interface

From: "Mike Myers\(kf6ihl\)" <kf6ihl@hotmail.com>
Date: Mon, 27 Aug 2001 07:48:26 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-32533-2001.08.27-10.11.57--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks so much. I will get cracking on my TNC now, and see If I can fine my mistake!

-Mike
----- Original Message -----
From: "William Beals" <will@beals5.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Sunday, August 26, 2001 12:53 PM
Subject: [wxsig] RE: Weather Station to TNC interface

> Mike (and all):
>
> Here is how I have my KPC3+ set. Hope this helps isolate things.
>
> cmd:display
> 8BITCONV ON
> ABAUD   4800
> AUTOLF   ON
> AX25L2V2 ON
> AXDELAY 0
> AXHANG   0
> BEACON   EVERY 43 min
> BKONDEL ON
> BLT
> 1 EVERY 00:00:00
> 2 EVERY 00:00:00
> 3 EVERY 00:00:00
> 4 EVERY 00:00:00
> BREAK   OFF
> BTEXT   !3941.38N/10448.84W_
> BUDLIST OFF NONE
> A Link state is: DISCONNECTED
> CANLINE $18 (CTRL-X)
> CANPAC $19 (CTRL-Y)
> CD   SOFTWARE
> CHECK   0 (disabled)
> CMDTIME 1 (1 sec)
> CMSG   ON
> COMMAND $03 (CTRL-C)
> CONLIST OFF NONE
> CONMODE CONVERS
> CONOK   ON
> CONPERM OFF
> CPACTIME OFF
> CR   ON
> CRSUP   OFF
> CSTAMP   OFF
> CTEXT   Rarely attended, best leave p-mail at N0XGA-1
> CTRL   A OFF   B OFF
> CWID   EVERY 0 (disabled)
> CWIDTEXT DE N0XGA
> DAYTIME 08/26/01 09:32:21
> DAYTWEAK 8
> DAYSTR   mm/dd/yy hh:mm:ss
> DAMA   OFF
> DAMACHCK 18 (180 sec)
> DBLDISC OFF
> DELETE $08 (CTRL-H)
> DIGIPEAT ON
> DWAIT   0
> ECHO   ON
> ESCAPE   OFF
> FLOW   OFF
> FILTER   OFF
> FRACK   4 (4 sec)
> FULLDUP OFF
> GPSHEAD
> 1
> 2
> 3
> 4

```
> GPSINIT
> HBAUD    1200
> HEADERLN OFF
> HID      OFF
> HTEXT
> INTFACE  TERMINAL
> KNTIMER  15 min
> LEDS     ON
> LCOK     ON
> LFADD    OFF
> LFSUP    OFF
> LLIST    OFF NONE
> LT
> 1
> 2 $GPRMC,040702,A,3941.410,N,10448.838,W,005.8,242.5,111197,010.2,E*64
>
> 3
> 4
> LTP
> 1 APRS VIA WIDE
> 2 APRS VIA WIDE
> 3 GPS
> 4 GPS
> LTRACK   0
> MONITOR  OFF
> MALL     ON
> MAXFRAME 4
> MAXUSERS 10
> MBEACON  ON
> MCON     OFF
> MCOM     OFF
> MHEADER  ON
> MRESP    OFF
> MRPT     ON
> MSTAMP   OFF
> MXMIT    OFF
> MYCALL   N0XGA
> MYALIAS
> MYDROP   0
> MYNODE   N0XGA-7
> MYPBBS   N0XGA-1
> MYREMOTE
> NDWILD   OFF
> NEWMODE  ON
> NOMODE   OFF
> NTEXT
> NUMNODES 0
> PACLEN   128
> PACTIME  AFTER 10 (1000 msec)
> PASS     $16 (CTRL-V)
> PASSALL  OFF
> PBBS     100
> PBFORWRD NONE  EVERY 0 (disabled)
> PBHEADER ON
> PBHOLD   ON
> PBKILLFW OFF
> PBLIST   OFF NONE
> PBLO     OLD FIXED
> PBPERSON OFF
> PBREVERS ON
> PERSIST  63 (25%)
> PID      OFF
> PMODE    CMD
> PTEXT    Welcome to Wills PBBS.
> REDISPLA $12 (CTRL-R)
> RELINK   OFF
> RETRY    10
> RING     ON
> RNRTIME  0 (disabled)
> RTEXT
> SCREENL  0
> SENDPAC  $0D (CTRL-M)
> SLOTTIME 10 (100 msec)
> START    $11 (CTRL-Q)
> STOP     $13 (CTRL-S)
> STREAMSW $7C (|)
> STREAMCA OFF
> STREAMEV OFF
> SUPLIST  OFF NONE
```

> SWP   17,17,108
> TELEMTRY 0 (disabled)
> TRACE   OFF
> TRFLOW   OFF
> TRIES   10
> TXDELAY 30 (300 msec)
> TXFLOW   OFF
> UNPROTO APRSW VIA WIDE3-3
> USERS   1
> XFLOW   ON
> XKCHKSUM OFF
> XKPOLLED OFF
> XMITLVL 72
> XMITOK   ON
> XOFF $13 (CTRL-S)
> XON $11 (CTRL-Q)
>
> will
>
> ---
> You are currently subscribed to wxsig as: kf6ihl@hotmail.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

35. [wxsig] 2001 ARRL/TAPR DCC September 21-23, 2001

From: "Steven Bible" <n7hpr@tapr.org>
Date: Mon, 27 Aug 2001 23:01:59 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-32729-2001.08.28-01.22.08--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

2001 ARRL/TAPR Digital Communications Conference
Cincinnati, Ohio
September 21-23, 2001

- -
Hurry! Conference Room Rates end September 1st!
- -

DCC Schedule Highlights:

Friday
All Day APRS Seminar

Saturday
Technical Papers and Introductory Sessions
Banquet Speaker and Prize Drawing

Sunday - 5 Hour Seminar:
"Simulating Circuits and Systems with Serenade SV"
by Dave Newkirk, W9VES

- -

The 20th ARRL and TAPR Digital Communications Conference will be held
September 21-23 in Cincinnati, Ohio. The annual gathering provides an
international forum for radio amateurs involved in digital communication,
networking, and related technologies to meet, publish their work, and
present new ideas and techniques for discussion.

The DCC is for technically oriented amateurs of all experience levels to
exchange ideas and learn about recent hardware and software advances,
theories, experimental results, and practical applications.

Sessions at the beginner, intermediate, and advanced levels will be offered
in selected areas of digital communication. Topics include APRS, satellite
communication, TCP/IP, digital radio, spread spectrum and other introductory
topics. Two symposia/seminars will be held which allow those with additional
time and interest to make the most of the conference. For those who may have
interest in just one symposium or seminar, registration for the conference
is not required to attend these activities.

The DCC banquet is Saturday night. A guest speaker will speak after the
banquet and a prize drawing will top the evening. The Sunday morning seminar

topic has not yet been announced.

This year's fifth annual Automated Position Reporting System (APRS) National Symposium will be an all-day Friday event moderated by Steve Dimse, K4HG--the developer of javAPRS and www.findu.com. Possible attendees include APRS software authors such as Bob Bruninga, WB4APR--the father of APRS--Keith Sproul, WU2Z, and Mark Sproul, KB2ICI--the developers of MacAPRS and WinAPRS--Brent Hildebrand, KH2Z--the developer of APRSPLUS, Mike Musick, N0QBF--developer of PocketAPRS--and other nationally known APRS leaders. This session will include in-depth discussions and presentations on the status and future of APRS. It's a unique opportunity to gain insight into this fast-paced aspect of digital operation that combines computers, packet radio and GPS.

Local co-hosts for the 2001 ARRL and TAPR DCC are
Greater Cinti Amateur Radio Assn. http://w3.one.net/~rkuns/gcara.html
DIAL Radio Club http://www.qsl.net/w8blv/Miami
Valley FM Association http://www.mvfma.org/Southwest
Ohio Digital Symposium http://w3.one.net/~rkuns/swohdigi.html

Conference presentations, meetings, and seminars will be held at the Holiday Inn Cincinnati--Airport and Conference Center <http://www.basshotels.com/hotels/cvgap>; 859-371-2233. A special DCC room rate of $89/single and $89/double per night has been blocked for 50 rooms and is available until September 1. Once the 50 rooms have been reserved, room rates will increase. The hotel provides transportation to and from the Cincinnati/Northern Kentucky International Airport.

Full information, a registration form, and hotel information also may be obtained by contacting Tucson Amateur Packet Radio, 972-671-TAPR (8277); fax 972-671-8716; e-mail: tapr@tapr.org.

Conference registration includes the conference Proceedings, sessions, meetings, and lunch on Saturday. Registrations received before September 1 are $45. After September 1 or at the door, registration is $55. The banquet is $30. The APRS National Symposium on Friday is $25. The Sunday seminar is $20.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

September 2001

Original source file: wxsig.0109
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0109

1. [wxsig] DCC: Last chance for registration discount, and updated program info

From: John Ackermann N8UR <jra@febo.com>
Date: Fri, 07 Sep 2001 12:50:15 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-34734-2001.09.07-12.19.44--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The early registration discount for both the hotel room rate, and the
registration fee, expires on September 10, so you only have a couple more
days to get your reservations and registration made at the lowest price.
Registrations at the normal price will be available and at the door (of
course, hotel rooms will be subject to availability).

The DCC begins on Friday, September 20 and runs through Sunday, September
22. Full details are available at
http://www.tapr.org/tapr/html/Fdccconf.html.

A couple of updates on the program:

1. We're very happy that Anthony R. Curtis, Ph.D, K3RXK, will be our
speaker at the DCC banquet. Tony's presentation will be titled "40 Years
of Amateur Radio In Space: Where We've Been, Where We Are, and Where We're
Going."

2. We've confirmed that the Packet Radio Users Group (PRUG) of Tokyo,
Japan will be sponsoring a reception and talking about their latest
activities Friday evening. PRUG is really on the cutting edge of digital
radio, and their presentations are always fascinating.

3. We are also fortunate to have three great activities that focus on the
hardware and soldering-iron side of amateur radio:

        * On Saturday, Jay Craswell, W0VNE, will do an introductory program on
using
        CirCAD, a powerful schematic drawing/PCB layout program that's available
(in a
        slightly limited form) for ham use at no cost.

        * Also on Saturday, Ten-Tec's Gary Barbour, AC4DL, will be talking about
Software
        Defined Radio development at Ten-Tec.

        * Our "Sunday Seminar" will feature Dave Newkirk, W9VES, providing a
tutorial
        on using the Serenade SV RF design software; this is another professional
package
        with a free version available for ham use.

We hope to see you there!

John N8UR
President, TAPR
jra@febo.com -- n8ur@tapr.org

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Correction to DCC Post

From: "John R. Ackermann" <jra@febo.com>
Date: Sat, 08 Sep 2001 20:22:57 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: mvarbb@febo.com, tawg-list@tawg.org
Message-ID: <LYR15067-34985-2001.09.08-19.54.27--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In a previous email I incorrectly stated that the Circad schematic drawing
and PCB layout program is available for Ham use at no cost. I
misunderstood the relationship of the various versions.

There is a highly discounted version of the $995 Circad program available
at $295.   This $295 version is available to Licensed Ham/Amateur Radio

Operators only. Check out http://dover.5u.com/ for more info on the Ham
Discount.

There is a demo version of Circad downloadable at http://www.holophase.com;
although that version can be used to draw small schematics and PCBs, it's
not a replacement for the full program.

I want to apologize to Holophase and to Jay Craswell for improperly
describing the versions of Circad, and to you for any confusion this may
have caused.

73,
John N8UR
President, TAPR
jra@febo.com -- n8ur@tapr.org

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Re: Sensor IDs, etc.

From: "Bill Gray" <bill.gray@thot.net>
Date: Sun, 9 Sep 2001 22:29:11
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-35252-2001.09.09-22.53.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay:

Thanks for the notes. I followed them but I'm still not having much luck.
I must be ding something wrong during the compile becasue not only are the
ID's not working but I've laos set the hours from GMT and tried to use
metric and none of that works. the puzzling thing is that the temperature
and wind speed ARE working.

I did use the Dallas 1-wire station software and was able to learn which
ID's represent North (reasonable close).

Any advice on things to try will be much appreciated!

Bill Gray

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] Re: Sensor IDs, etc.

From: "William Beals" <will@beals5.com>
Date: Sun, 9 Sep 2001 21:48:07 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-35253-2001.09.09-23.05.42--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill:

(not sure what you are responding to, but...)

Don't forget that if you are putting in your own IDs to make sure you set
the USER define in WX08.S to make sure your settings get used.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Gray
Sent: Sunday, September 09, 2001 10:29 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Sensor IDs, etc.

Clay:

Thanks for the notes. I followed them but I'm still not having much luck.
I must be ding something wrong during the compile becasue not only are the
ID's not working but I've laos set the hours from GMT and tried to use
metric and none of that works. the puzzling thing is that the temperature
and wind speed ARE working.

I did use the Dallas 1-wire station software and was able to learn which

ID's represent North (reasonable close).

Any advice on things to try will be much appreciated!

Bill Gray

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] System failure

From: "Bill Ellis" <rwsw60@email.sps.mot.com>
Date: Wed, 12 Sep 2001 07:35:16 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-35602-2001.09.12-08.00.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

My system failed the second week in June. The controller was locked up.
Cycling power gave a "one wire short to ground" message.
Do to family issues I was not able to get to the roof and pull the
system down until this last weekend. I removed sensors from the one-wire
buss until the short was gone. The Rain Gauge was the sensor causing the
problem. It failed during a peroid of NO rain or thunderstorm activity.
The black rubber coating on the circuit was intact. Has anyone else had
this board fail? Does anyone know if the board can be purchased or do I
have to buy the entire Rain Gauge? I would try and replace the bad
device on the board but the coating I would guess makes this a major
chore. Any advice from the group?
Bill N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] RE: System failure

From: "William Beals" <will@beals5.com>
Date: Wed, 12 Sep 2001 06:54:07 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-35603-2001.09.12-08.11.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill:

Bummer. The failure mode sounds like the fairly common one where a static
protection diode fails on the main board. Although why it would fail on one
board and not any others close to it seems strange. Since the weather
station is still sold by Dallas Semi, you may be able to get some support
from them. The guru (unless Russ knows it has changes is Dan Awtrey at Dan
Awtrey [SMTP:Dan.Awtrey@dalsemi.com]. He is a pretty helpful guy that
represents Dallas on their [weather] reflector.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Ellis
Sent: Wednesday, September 12, 2001 6:35 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] System failure

My system failed the second week in June. The controller was locked up.
Cycling power gave a "one wire short to ground" message.
Do to family issues I was not able to get to the roof and pull the
system down until this last weekend. I removed sensors from the one-wire
buss until the short was gone. The Rain Gauge was the sensor causing the
problem. It failed during a peroid of NO rain or thunderstorm activity.
The black rubber coating on the circuit was intact. Has anyone else had
this board fail? Does anyone know if the board can be purchased or do I
have to buy the entire Rain Gauge? I would try and replace the bad
device on the board but the coating I would guess makes this a major
chore. Any advice from the group?
Bill N5ZTW

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] RE: System failure

From: "Russ Chadwick" <crb5@qwest.net>
Date: Wed, 12 Sep 2001 16:52:23 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-35711-2001.09.12-20.09.18--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill,

Dan Awtrey of Dallas Semiconductor is the guy who designed the 1-Wire
weather station. The good news is that he is always very helpful. The bad
news is that he is away from the job until the middle of October.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: William Beals <will@beals5.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Wednesday, September 12, 2001 6:54 AM
Subject: [wxsig] RE: System failure

> Bill:
>
> Bummer. The failure mode sounds like the fairly common one where a static
> protection diode fails on the main board. Although why it would fail on
one
> board and not any others close to it seems strange. Since the weather
> station is still sold by Dallas Semi, you may be able to get some support
> from them. The guru (unless Russ knows it has changes is Dan Awtrey at
Dan
> Awtrey [SMTP:Dan.Awtrey@dalsemi.com]. He is a pretty helpful guy that
> represents Dallas on their [weather] reflector.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Ellis
> Sent: Wednesday, September 12, 2001 6:35 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] System failure
>
>
> My system failed the second week in June. The controller was locked up.
> Cycling power gave a "one wire short to ground" message.
> Do to family issues I was not able to get to the roof and pull the
> system down until this last weekend. I removed sensors from the one-wire
> buss until the short was gone. The Rain Gauge was the sensor causing the
> problem. It failed during a peroid of NO rain or thunderstorm activity.
> The black rubber coating on the circuit was intact. Has anyone else had
> this board fail? Does anyone know if the board can be purchased or do I
> have to buy the entire Rain Gauge? I would try and replace the bad
> device on the board but the coating I would guess makes this a major
> chore. Any advice from the group?
> Bill N5ZTW
>
> ---
> You are currently subscribed to wxsig as: will@beals5.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] Fw: [weather] Dan's replacement until he returns

From: "Alan Heaberlin" <amh@as.net>
Date: Thu, 13 Sep 2001 08:58:44 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-35843-2001.09.13-11.22.51--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Out of office
----- Original Message -----
From: Alan Heaberlin
To: wxsig@lists.tapr.org
Sent: Thursday, September 13, 2001 8:55 AM
Subject: Fw: [weather] Out of office

Here is the mail Dan sent out before he left. Good thing I saved it!
Alan Heaberlin W6AMH

----- Original Message -----
From: Dan Awtrey
To: 'weather@ibutton.com'
Sent: Friday, August 31, 2001 2:23 PM
Subject: [weather] Out of office

I will be out of the office until Oct 17th.

If you need assistance during this period, contact Ken Edmundson by email (ken.edmundson@dalsemi.com)
or phone 972-371-4392.

Regards,

Dan Awtrey   Staff Engineer
Dallas Semiconductor   Phone: 972-371-6297
Building C   FAX: 972-371-3715
4401 S. Beltwood Pkwy.   E-mail: dan.awtrey@dalsemi.com
Dallas, TX 75244-3292

9. [wxsig] Digital Communications Conference Still On

From: John Ackermann N8UR <jra@febo.com>
Date: Thu, 13 Sep 2001 17:24:05 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-35924-2001.09.13-16.53.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

With the tragic events of this week, we've had to seriously consider
whether it was still appropriate or feasible to hold the Digital
Communications Conference next weekend (Sept. 20-22) in Cincinnati.
Although we grieve with the whole world for the losses so many have
suffered, we believe it's important to show that terrorism will not succeed
in making us change our way of life.

So, the DCC will go on. We realize that in light of the circumstances,
some folks who have already registered may feel they cannot attend. If
that is the case, please contact the TAPR office (tapr@tapr.org) and we
will arrange a refund of your registration fee. If you are traveling to
the DCC, remember that things may still be somewhat disrupted next week,
and increased security precautions will certainly cause some airport
delays. Check with your airline early and often to make sure they haven't
changed your plans for you.

We realize that this year's DCC may well be smaller, and will certainly be
more somber, than in past years. But we think that going ahead is the
right thing to do, and we hope that you agree.

73,
John

John Ackermann   N8UR   jra@febo.com   http://www.febo.com
President, TAPR   n8ur@tapr.org   http://www.tapr.org

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] Re: wxsig digest: September 12, 2001

From: Larry Lovell <llovell@home.com>
Date: Thu, 13 Sep 2001 20:10:33 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-35999-2001.09.13-20.33.48--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

My system also locked up. My red light stopped flashing. The voltage on my bus line went to near 0 volts. I checked out the system and noted that the problem was with the rain gauge. I took the unit apart and could find no physical reason for the short. In my case, it was raining when the problem occurred. I brought it in the house to dry out. I checked it out a week later and it is still bad, but I have not had a chance to further debug the problem.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] changing address???

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Mon, 17 Sep 2001 17:45:03 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-36748-2001.09.17-17.09.26--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I can see from the lines at the bottom how to unsubscribe from this but how do I change my email address???

I want to change from my old <ka2bqe@amsat.org> to <n1bq_list@wulfden.org>

73 de brian, n1bq

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] Re: changing address???

From: "Roger Bille" <roger.bille@telia.com>
Date: Tue, 18 Sep 2001 00:11:43 +0200
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-36754-2001.09.17-17.35.46--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Brian,

Normally for list servers you will need to subscribe again with your new address and unsubscribe your old one. There is no other way to do this. I recommend you subscribe the new one first and wait to unsubscribe until you have got a posting twice so you don't miss anything.

73 de sm5nrk/Roger

----- Original Message -----
From: "Brian B. Riley" <brianbr@wulfden.org>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Monday, September 17, 2001 11:45 PM
Subject: [wxsig] changing address???

> I can see from the lines at the bottom how to unsubscribe from this but
> how do I change my email address???
>
> I want to change from my old <ka2bqe@amsat.org> to
> <n1bq_list@wulfden.org>
>
> 73 de brian, n1bq
>
>
> ---
> You are currently subscribed to wxsig as: roger.bille@telia.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

13. [wxsig] Re: changing address???

From: "Brian B. Riley" <brianbr@wulfden.org>
Date: Tue, 18 Sep 2001 17:17:48 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-36993-2001.09.18-16.42.23--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

gee, why didn't I think of that????? my point is where the hell do we go
to do it? I have hunted the TAPR web page and thehj WX SIG list seems no
where to be found ....

> -----Original Message-----
> From: Roger Bille
> Sent: Monday, September 17, 2001 18:12 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: changing address???

> Brian,

> Normally for list servers you will need to subscribe again
> with your new
> address and unsubscribe your old one. There is no other way
> to do this. I
> recommend you subscribe the new one first and wait to
> unsubscribe until you
> have got a posting twice so you don't miss anything.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] Re: changing address???

From: John Koster <w9ddd@tapr.org>
Date: Tue, 18 Sep 2001 16:50:43 -0500 (CDT)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-36995-2001.09.18-17.15.03--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

on the home page near the bottom of the left hand column is "TAPR Lists"
Once on the "TAPR List System" page select "Special Interest Groups",
there you will find at the bottom of the page "Weather Special Interest
Group"

Or you might try this directly, it's what I got when I tried to do a
simple copy and paste of the text for that selection, but I didn't test
it.

http://www.tapr.org/cgi-bin/lyris.pl?enter=wxsig&text_mode=0

Hope it works for you.

John Koster, W9DDD
<w9ddd@tapr.org>

On Tue, 18 Sep 2001, Brian B. Riley wrote:

> gee, why didn't I think of that????? my point is where the hell do we go
> to do it? I have hunted the TAPR web page and thehj WX SIG list seems no
> where to be found ....
>
> > -----Original Message-----
> > From: Roger Bille
> > Sent: Monday, September 17, 2001 18:12 PM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] Re: changing address???
>
> > Brian,
>
> > Normally for list servers you will need to subscribe again
> > with your new

> > address and unsubscribe your old one. There is no other way
> > to do this. I
> > recommend you subscribe the new one first and wait to
> > unsubscribe until you
> > have got a posting twice so you don't miss anything.
>
>
> ---
> You are currently subscribed to wxsig as: w9ddd@tapr.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] Digital Communications Conference -- Final Update

From: "John R. Ackermann" <jra@febo.com>
Date: Tue, 18 Sep 2001 19:32:34 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-37025-2001.09.18-19.05.32--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Well, the Digital Communications Conference is only a few days away. If you can make your way to Cincinnati, Ohio this weekend (Sept. 21-22) we invite you to attend the show -- registration is available at the door. Full details, including the current schedule, are available at http://www.tapr.org/dcc.

Here's a brief rundown; note that due to the tragic events of last week, we've had to make some adjustments to the schedule.

Friday:

Registration Opens	9:00AM	
APRS Forum		1:00 - 6:00PM (The morning part of the Forum has been cancelled.)
PRUG Social		7:00PM (Come enjoy the hospitality and see the latest activities of the Packet Radio Users Group of Tokyo, Japan.)

Saturday:

Registration Opens	7:15AM	
Main Program	8:00AM - 5:00PM	(There will be a mix of introductory sessions on new aspects of digital communication, as well as more advanced topics. We think there'll be something for everyone.)
TAPR Membership Meeting	5:00PM	
Banquet		7:00PM (Anthony Curtis, K3RXK will speak on "40 Years of Amateur Radio in Space.")

NOTE: We've regretfully had to cancel the Sunday Seminar. If you registered for it, please stop at the registration area or contact TAPR to arrange a refund.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] APRSWXNET info

From: "Russ Chadwick" <crb5@qwest.net>
Date: Wed, 19 Sep 2001 19:31:31 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-37253-2001.09.19-20.56.04--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I've put together a new set of web pages to access APRSWXNET data and other
information from the findu.com server. There is a web page for each state
and soon there will be similar pages for the international stations. Go to
this URL and click on any state,

http://www.users.qwest.net/~crb5/stations.html

If you find anything that doesn't work, let me know about it.

Russ   KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

17. [wxsig] using mon08 to program wireids

From: "Bill Gray" <bill.gray@thot.net>
Date: Thu, 20 Sep 2001 22:21:15
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-37472-2001.09.20-22.45.45--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have tried to input the wireids using the advice from this list and from
the documentation but have not been successful. The code successfully
compiles and creates the s19 file. I have confirmed this by reviewing the
.lst listing created by the assembler and by looking at the hex .s19 file.

When I run mon08.exe it reports that it has loaded the file successfully
but then reports that it has ignored code from $f000 to $ffff assuming it
is monitor code and has found code from $8000 to $b758.

The id's are located at $f800. This is within the range that mon08 is
reporting that it is ignoring. Am I misinterpreting these messages? It
appears that this may be the reason that the ids are not working properly
and why the other codes such as use of metric are also not working.

As usual, any and all advice is most welcome!

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

18. [wxsig] RE: using mon08 to program wireids

From: "William Beals" <will@beals5.com>
Date: Thu, 20 Sep 2001 21:51:23 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-37473-2001.09.20-23.08.57--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill:

You have it about 90% correct. What you need to do is use the P&E
programmer to program the micro instead of MON08 (links to it are on the
links page (http://www.beals5.com/wx).

MON08 is for people who just want to upgrade the program while leaving their
settings in tact. I figured if you were able to go in and tinker with the
assembly code, you should be able to use the programmer too. Take a stab at
it and if things aren't working let me know and I'll provide a few pointers.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Gray
Sent: Thursday, September 20, 2001 10:21 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] using mon08 to program wireids

I have tried to input the wireids using the advice from this list and from
the documentation but have not been successful. The code successfully
compiles and creates the s19 file. I have confirmed this by reviewing the
.lst listing created by the assembler and by looking at the hex .s19 file.

When I run mon08.exe it reports that it has loaded the file successfully
but then reports that it has ignored code from $f000 to $ffff assuming it
is monitor code and has found code from $8000 to $b758.

The id's are located at $f800. This is within the range that mon08 is
reporting that it is ignoring. Am I misinterpreting these messages? It
appears that this may be the reason that the ids are not working properly
and why the other codes such as use of metric are also not working.

As usual, any and all advice is most welcome!

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

19. [wxsig] Re: using mon08 to program wireids

From: "Clay Bartholow" <clay.bartholow@neicoltech.org>
Date: Fri, 21 Sep 2001 06:39:06 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-37513-2001.09.21-07.05.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill,

I recall one of the first times I used the P&E tools I had a similar
experience. There is a "poke" mode (Program Byte or something like that as
I recall) and I used this to program the individual bytes of the one-wire
device ids, etc. into the device. This certainly is not the preferred way
to do it but it worked for me. I think I might have talked about this in my
'treatise' but I don't recall for certain.

Sorry, I don't recall exactly what I've done different more recently to
avoid having to do this -- it's been a couple too many projects ago.

GL es 73,

Clay W0LED

----- Original Message -----
From: "Bill Gray" <bill.gray@thot.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Thursday, September 20, 2001 10:21 PM
Subject: [wxsig] using mon08 to program wireids

> I have tried to input the wireids using the advice from this list and from
> the documentation but have not been successful. The code successfully
> compiles and creates the s19 file. I have confirmed this by reviewing the
> .lst listing created by the assembler and by looking at the hex .s19 file.
>
> When I run mon08.exe it reports that it has loaded the file successfully
> but then reports that it has ignored code from $f000 to $ffff assuming it
> is monitor code and has found code from $8000 to $b758.
>
> The id's are located at $f800. This is within the range that mon08 is
> reporting that it is ignoring. Am I misinterpreting these messages? It
> appears that this may be the reason that the ids are not working properly
> and why the other codes such as use of metric are also not working.
>
> As usual, any and all advice is most welcome!
>
> ---
> You are currently subscribed to wxsig as: w0led@arrl.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

20. [wxsig] RE: using mon08 to program wireids

From: "Bill Gray" <bill.gray@thot.net>
Date: Sat, 22 Sep 2001 8:28:53
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-37769-2001.09.22-08.53.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

MANY thanks!

With your advice a some trial and error, I managed to get the programmer to
talk to the monitor and programmed the controller successfully.

I now have wind direction!!!

Thanks!

Bill

On 09/20/01, ""William Beals" <will@beals5.com>" wrote:
> Bill:
>
> You have it about 90% correct. What you need to do is use the P&E
> programmer to program the micro instead of MON08 (links to it are on the
> links page (http://www.beals5.com/wx).
>
> MON08 is for people who just want to upgrade the program while leaving their
> settings in tact. I figured if you were able to go in and tinker with the
> assembly code, you should be able to use the programmer too. Take a stab at
> it and if things aren't working let me know and I'll provide a few pointers.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Gray
> Sent: Thursday, September 20, 2001 10:21 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] using mon08 to program wireids
>
>
> I have tried to input the wireids using the advice from this list and from
> the documentation but have not been successful. The code successfully
> compiles and creates the s19 file. I have confirmed this by reviewing the
> .lst listing created by the assembler and by looking at the hex .s19 file.
>
> When I run mon08.exe it reports that it has loaded the file successfully
> but then reports that it has ignored code from $f000 to $ffff assuming it
> is monitor code and has found code from $8000 to $b758.
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> The id's are located at $f800. This is within the range that mon08 is
> reporting that it is ignoring. Am I misinterpreting these messages? It
> appears that this may be the reason that the ids are not working properly
> and why the other codes such as use of metric are also not working.
>
> As usual, any and all advice is most welcome!
>
> ---
> You are currently subscribed to wxsig as: will@beals5.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

21. [wxsig] Micro WX station?

From: "Earl S. Garber" <esgarber@teleport.com>
Date: Sun, 23 Sep 2001 15:24:21 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-38056-2001.09.23-17.48.54--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Whatever happened to K0RX and his micro weather station?
The webpage is blank, and an email asking him about it
was unanswered.

...N3EG

22. [wxsig] Re: Micro WX station?

From: "David R. Andersen" <k0rx@uiowa.edu>
Date: Mon, 24 Sep 2001 08:08:47 -0500

To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-38153-2001.09.24-08.38.08--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Earl:
  My reply to you the day you sent your query to me bounced - your isp's
mail server said you didn't exist. Given that, I couldn't contact you.

  Anyway, the MicroWeather project page has moved to
http://www.qsl.net/k0rx/uWx - I put a client pull thingie at the old
page which should have automatically moved you to the new one, but even
if your browser doesn't work properly, you can click on the above link
and follow the development of MicroWeather.

  I also gave a talk at the DCC last week on the current status of the
project. If you (or anyone else) would like a copy of my presentation,
let me know.

73
Dave K0RX

"Earl S. Garber" wrote:

> Whatever happened to K0RX and his micro weather station?The webpage is
> blank, and an email asking him about itwas unanswered. ...N3EG

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

23. [wxsig] Re: Micro WX station?

From: Alan Heaberlin <w6amh@yahoo.com>
Date: Mon, 24 Sep 2001 16:12:57 -0700 (PDT)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-38273-2001.09.24-18.37.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Dave,
I'd like to see your presentation. I've been waiting
with great interest to see how your project is coming
along. "http://www.qsl.net/k0rx/uWx" is not working as
I write this, so maybe there is a problem with your
server. Hopefully your beta testing is going OK and
there will be boards available soon.
Alan Heaberlin W6AMH
Radio Officer
National Weather Service San Joaquin Valley (HNX)

--- "David R. Andersen" <k0rx@uiowa.edu> wrote:
> Earl:
>   My reply to you the day you sent your query to me
> bounced - your isp's
> mail server said you didn't exist. Given that, I
> couldn't contact you.
>
>   Anyway, the MicroWeather project page has moved to
> http://www.qsl.net/k0rx/uWx - I put a client pull
> thingie at the old
> page which should have automatically moved you to
> the new one, but even
> if your browser doesn't work properly, you can click
> on the above link
> and follow the development of MicroWeather.
>
>   I also gave a talk at the DCC last week on the
> current status of the
> project. If you (or anyone else) would like a copy
> of my presentation,
> let me know.
>
> 73
> Dave K0RX
>
> "Earl S. Garber" wrote:
>
> > Whatever happened to K0RX and his micro weather
> station?The webpage is
> > blank, and an email asking him about itwas
> unanswered. ...N3EG

>
>
> ---
> You are currently subscribed to wxsig as:
> w6amh@yahoo.com
> To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
>

_____
Do You Yahoo!?
Get email alerts & NEW webcam video instant messaging with Yahoo! Messenger. http://im.yahoo.com

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

24. [wxsig] Re: Micro WX station?

From: Doug <dbuhrman@radiks.net>
Date: Mon, 24 Sep 2001 17:56:52 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-38281-2001.09.24-19.21.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Dave K0RX

I would be interested in a copy of your uWX presentation at DCC.

Doug K0DSP

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

25. [wxsig] Re: Micro WX station?

From: "clay bartholow" <clay.bartholow@neicoltech.org>
Date: Tue, 25 Sep 2001 07:46:12 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-38365-2001.09.25-08.10.54--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Dave,

Please forward a copy of your DCC presentation on the uWx. Thanks.

73,
Clay Bartholow
W0LED

> -----Original Message-----
> From: bounce-wxsig-18179@lists.tapr.org
> [mailto:bounce-wxsig-18179@lists.tapr.org]On Behalf Of David R. Andersen
> Sent: Monday, September 24, 2001 8:09 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: Micro WX station?
>
>
> Earl:
> My reply to you the day you sent your query to me bounced - your isp's
> mail server said you didn't exist. Given that, I couldn't contact you.
>
> Anyway, the MicroWeather project page has moved to
> http://www.qsl.net/k0rx/uWx - I put a client pull thingie at the old
> page which should have automatically moved you to the new one, but even
> if your browser doesn't work properly, you can click on the above link
> and follow the development of MicroWeather.
>
> I also gave a talk at the DCC last week on the current status of the
> project. If you (or anyone else) would like a copy of my presentation,
> let me know.
>
> 73
> Dave K0RX
>
> "Earl S. Garber" wrote:
>

> > Whatever happened to K0RX and his micro weather station?The webpage is
> > blank, and an email asking him about itwas unanswered. ...N3EG
>
>
> ---
> You are currently subscribed to wxsig as: w0led@arrl.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

26. [wxsig] Davis VantagePro Interface

From: "William Trigg Tabor" <k8nio@arrl.net>
Date: Fri, 28 Sep 2001 19:29:39
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-39162-2001.09.28-19.54.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Has anyone been able to use the new wireless Davis VantagePro as an WinAPRS
weather data input device. If so, how?

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

October 2001

Original source file: wxsig.0110
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0110

1. [wxsig] Loading Ver 1-12-5.s19

From: "David Meadows" <david.meadows@sympatico.ca>
Date: Fri, 5 Oct 2001 15:22:21
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-40456-2001.10.05-15.47.47--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Help!!!

   I think I have just loaded 1-12-5 but am encountering a problem
   At the end of loading 1-12-5 I got the following message
   "Program download complete
   This has been another CMI production"

   At this point the program did not self-start

   When I connect the 1 Wire bus first and the power second, the Dr. Morgan   screen alternates with a blacked out display. The heart beat lamp   operates with the Dr. Morgan screen but not with the blacked out display

   If I remove the 1 Wire bus, I get a "Rain Guage Missing Ignore Sensor"   followed by "1Wire bus error no devices respond" message
   When I re-connect the bus I get the following display

   Display Current Data
   (SW Rev 1.12.5R)

   When I press Sel or Menu nothing happens. All the time the heart beat   lamp is flashing.

   I suspect I might have to do a soft reset, but I am not sure how to do   it.

   Thank-you

   David Meadows
   VE3AFZ
   Ottawa Canada

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] RE: Loading Ver 1-12-5.s19

From: "William Beals" <will@beals5.com>
Date: Fri, 5 Oct 2001 21:43:46 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-40503-2001.10.05-23.09.47--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

David:

My first question is were you running in pure DOS mode (booted into DOS
versus a DOS window under Windows) for the download. The latter does not
work reliably and can gum up a download. The bootloader should still be in
tact, so if there was a problem, reloading it should fix any issue.

I am also wondering if you have a sensor problem. I am not sure what
sensors you have, but if you have more than one and can easily separate
them, you may want to try them individually. For example I have the main
wind/temperature gauges, rain and humidity. I can plug and unplug each if I
need to. If it is a sensor problem that happened to happen at the same time
as your download, that will isolate it.

I'd suggest monitoring the bus voltage, but since the weather station is not
behaving itself you probably can't get to the diagnostics screen. In any
event, looking at the 1-wire bus voltage with a voltmeter is a good idea.
Hopefully you should see mostly 4-5V with an occasional dip. The dip may be
small enough and fast enough that most voltmeters may not even register it.
If you have an oscilloscope, even better.

I hope it is the first issue, that is the most plausible explanation. If
not, poking around with the other suggestions will provide some information
to where I'll be happy to help you with further suggestions.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of David Meadows
Sent: Friday, October 05, 2001 3:22 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Loading Ver 1-12-5.s19

Help!!!

I think I have just loaded 1-12-5 but am encountering a problem
At the end of loading 1-12-5 I got the following message
"Program download complete
This has been another CMI production"

At this point the program did not self-start

When I connect the 1 Wire bus first and the power second, the Dr. Morgan screen alternates with a blacked out display. The heart beat lamp operates with the Dr. Morgan screen but not with the blacked out display

If I remove the 1 Wire bus, I get a "Rain Guage Missing Ignore Sensor" followed by "1Wire bus error no devices respond" message
When I re-connect the bus I get the following display

Display Current Data
(SW Rev 1.12.5R)

When I press Sel or Menu nothing happens. All the time the heart beat lamp is flashing.

I suspect I might have to do a soft reset, but I am not sure how to do it.

Thank-you

David Meadows
VE3AFZ
Ottawa Canada

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Re: wxsig digest: October 05, 2001

From: David Meadows <david.meadows@sympatico.ca>
Date: Sun, 07 Oct 2001 18:13:07 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-40754-2001.10.07-17.38.36--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will:

Thanks for the quick reply to my problem. I did use a DOS window which was the load problem. After a number of attempts to reboot my computer in DOS, I placed a DOS disk in the A drive and took my chances, booted the computer and DOS appeared. This resulted in a quick reload that worked fine. I forgot to mention initially that the sensors were working fine on the Dallas interface and weather program.

I did check the bus voltage and input voltages against what was on the T-238 screen and found the following:
T-238 Bus: 2.50V -- actual reading 4.93 V
T-238 Bty : 7.4V -- actual reading 10.54 V

Thanks for the help

73
David Meadows VE3AFZ
Ottawa Canada

At 01:01 AM 06/10/01 , you wrote:
>TAPR WX Special Interest Group Digest for Friday, October 05, 2001.
>

>1. Loading Ver 1-12-5.s19
>2. RE: Loading Ver 1-12-5.s19
>
>--
>
>Subject: Loading Ver 1-12-5.s19
>From: "David Meadows" <david.meadows@sympatico.ca>
>Date: Fri, 5 Oct 2001 15:22:21
>X-Message-Number: 1
>
>   Help!!!
>
>   I think I have just loaded 1-12-5 but am encountering a problem
>   At the end of loading 1-12-5 I got the following message
>   "Program download complete
>   This has been another CMI production"
>
>   At this point the program did not self-start
>
>   When I connect the 1 Wire bus first and the power second, the Dr. Morgan
> screen alternates with a blacked out display. The heart beat lamp
>operates with the Dr. Morgan screen but not with the blacked out display
>
>   If I remove the 1 Wire bus, I get a "Rain Guage Missing Ignore Sensor"
> followed by "1Wire bus error no devices respond" message
>   When I re-connect the bus I get the following display
>
>   Display Current Data
>   (SW Rev 1.12.5R)
>
>   When I press Sel or Menu nothing happens. All the time the heart beat
> lamp is flashing.
>
>   I suspect I might have to do a soft reset, but I am not sure how to do
> it.
>
>   Thank-you
>
>   David Meadows
>   VE3AFZ
>   Ottawa Canada
>--
>
>Subject: RE: Loading Ver 1-12-5.s19
>From: "William Beals" <will@beals5.com>
>Date: Fri, 5 Oct 2001 21:43:46 -0600
>X-Message-Number: 2
>
>David:
>
>My first question is were you running in pure DOS mode (booted into DOS
>versus a DOS window under Windows) for the download. The latter does not
>work reliably and can gum up a download. The bootloader should still be in
>tact, so if there was a problem, reloading it should fix any issue.
>
>I am also wondering if you have a sensor problem. I am not sure what
>sensors you have, but if you have more than one and can easily separate
>them, you may want to try them individually. For example I have the main
>wind/temperature gauges, rain and humidity. I can plug and unplug each if I
>need to. If it is a sensor problem that happened to happen at the same time
>as your download, that will isolate it.
>
>I'd suggest monitoring the bus voltage, but since the weather station is not
>behaving itself you probably can't get to the diagnostics screen. In any
>event, looking at the 1-wire bus voltage with a voltmeter is a good idea.
>Hopefully you should see mostly 4-5V with an occasional dip. The dip may be
>small enough and fast enough that most voltmeters may not even register it.
>If you have an oscilloscope, even better.
>
>I hope it is the first issue, that is the most plausible explanation. If
>not, poking around with the other suggestions will provide some information
>to where I'll be happy to help you with further suggestions.
>
>will
>
>-----Original Message-----
>From: bounce-wxsig-21132@lists.tapr.org
>[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of David Meadows
>Sent: Friday, October 05, 2001 3:22 PM

>To: TAPR WX Special Interest Group
>Subject: [wxsig] Loading Ver 1-12-5.s19
>
>
>   Help!!!
>
>   I think I have just loaded 1-12-5 but am encountering a problem
>   At the end of loading 1-12-5 I got the following message
>   "Program download complete
>   This has been another CMI production"
>
>   At this point the program did not self-start
>
>   When I connect the 1 Wire bus first and the power second, the Dr. Morgan
>screen alternates with a blacked out display. The heart beat lamp
>operates with the Dr. Morgan screen but not with the blacked out display
>
>   If I remove the 1 Wire bus, I get a "Rain Guage Missing Ignore Sensor"
>followed by "1Wire bus error no devices respond" message
>   When I re-connect the bus I get the following display
>
>   Display Current Data
>   (SW Rev 1.12.5R)
>
>   When I press Sel or Menu nothing happens. All the time the heart beat
>lamp is flashing.
>
>   I suspect I might have to do a soft reset, but I am not sure how to do
>it.
>
>   Thank-you
>
>   David Meadows
>   VE3AFZ
>   Ottawa Canada
>---
>You are currently subscribed to wxsig as: will@beals5.com
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
>
>
>---
>
>END OF DIGEST
>
>---
>You are currently subscribed to wxsig as: david.meadows@sympatico.ca
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] Re: wxsig digest: October 05, 2001

From: "William Beals" <will@beals5.com>
Date: Sun, 7 Oct 2001 17:07:46 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-40758-2001.10.07-18.33.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Dave:

Glad to know it was a download problem (and not a hardware problem). I'd
really like to get the download program into a windows format, but that is
not my area of expertise. I got a bit of a reality check when my new
Windows ME machine wouldn't let me boot into DOS. My solution was the same
as yours, make a boot floppy (using Windows ME format/s) and boot from it.
I put DOS, the downloader, and the .s19 file on the floppy and was able to
recover. The DOS days are numbered.

There is a bug on the battery voltage display that needs fixing, but I am
not aware of any bugs with the bus voltage display. Are you aware of any
different on your board?

Is anyone else not seeing the correct bus voltage?

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of David Meadows
Sent: Sunday, October 07, 2001 4:13 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: wxsig digest: October 05, 2001

Will:

Thanks for the quick reply to my problem. I did use a DOS window which was the load problem. After a number of attempts to reboot my computer in DOS, I placed a DOS disk in the A drive and took my chances, booted the computer and DOS appeared. This resulted in a quick reload that worked fine. I forgot to mention initially that the sensors were working fine on the Dallas interface and weather program.

I did check the bus voltage and input voltages against what was on the T-238 screen and found the following:
T-238 Bus: 2.50V -- actual reading 4.93 V
T-238 Bty : 7.4V -- actual reading 10.54 V

Thanks for the help

73
David Meadows VE3AFZ
Ottawa Canada

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] case for the t238

From: "Tim Siegel" <iceman@wesnet.com>
Date: Fri, 12 Oct 2001 15:18:8
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-41496-2001.10.12-15.43.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello just finish the t238. It was easier then expected about 2.5 hours. It is up and running great. Now that it is running does anyone know of a good case to use. I don't what to leave it with just the board. Thanks For the Help. Tim

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] RE: case for the t238

From: "William Beals" <will@beals5.com>
Date: Sat, 13 Oct 2001 12:30:27 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-41607-2001.10.13-14.07.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Tim:

Several folk have found neat little boxes to put the T238 into. I am not near my archives this weekend, but I do have several pictures of enclosures for the printed circuit board. In general what is easiest is to get some panel mount switches, mount them to your case, then run wires from those switches to the printed circuit board. Mounting the LCD is the trickiest. What I have in the past is to drill four holes in the case to match the four mounting points on the LCD board. I then get some long skinny screws, and mount them with the heads on the outside of the case and nuts on the inside to hold the screws secure. I then use a couple more nuts to set the position of the LCD board just back behind the case. That way I can set the height where I need it and not be stressing the PCB at all. The hardest part for me is making a clean cut in the case for the LCD glass. It just takes patience.

Good luck. I'll try to find some pictures when I get back home.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Tim Siegel
Sent: Friday, October 12, 2001 3:00 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] case for the t238

Hello just finish the t238. It was easier then expected about 2.5 hours. It
is up and running great. Now that it is running does anyone know of a good
case to use. I don't what to leave it with just the board. Thanks For the
Help. Tim

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] using metric

From: "Bill Gray" <bill.gray@thot.net>
Date: Sat, 13 Oct 2001 16:23:25
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-41615-2001.10.13-16.48.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have set the metric parameter. the tmeperatures are reading perfectly
but I do not know if the wind speed is or not.

On the first menu, the wind speed shows along wiht the gust information.
there are no units shown. On the second menu, it displays yesterdays gust
and it says that it is in MPH. Based upon the number displayed, it seems
to be in the same units as the first menu (todays information).

1. When the metric flag is set, what are the units for wind speed? The
software (comments) seems to imolly Kilometres per hour?

2. is the max gust for yesterday displayed in the saem unit (and the MPH in
the display is incorrect) OR is the max gust converted to MPH?

Bill Gray
North Bay, Ontario

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] Tapr kits in Europe?

From: "Xenofon" <sv3bef@aias.gr>
Date: Sun, 14 Oct 2001 17:16:04 +0300
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-41704-2001.10.14-09.37.54--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Can I find Tapr kits (say T238) in Europe (Germany,UK,France,Italy,Greece!!)
?

73 de SV3BEF, Xenofon

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] RE: Tapr kits in Europe?

From: "William Beals" <will@beals5.com>
Date: Sun, 14 Oct 2001 08:53:13 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-41711-2001.10.14-10.36.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Xenofon:

TAPR does not have any outlets in Europe, but do support order from outside
the US. I am pretty sure the instructions on the website ask you to email

them to figure out the particulars.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Xenofon
Sent: Sunday, October 14, 2001 8:16 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Tapr kits in Europe?

Can I find Tapr kits (say T238) in Europe (Germany,UK,France,Italy,Greece!!)
?

73 de SV3BEF, Xenofon

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] RE: using metric

From: "William Beals" <will@beals5.com>
Date: Sun, 14 Oct 2001 09:07:36 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-41712-2001.10.14-10.37.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill:

I thought I had metric code up and debugged thanks to some folk in Europe
who use the more rational units of measure. I checked here that I do have
all the correct screens, so maybe I broke something without realizing it. I
will check into this and let you know. Can you please confirm your software
version number?

For space reasons I don't throw in the units on all measurements, not enough
room. I try to have at least one though. With the later versions of code I
do use pretty cheesy graphics for MH and KH for the units of measure. This
is a temporary way to squeeze all the data on to one screen. Once I throw
in support for any additional sensors I'll blow out of those screens and
have to spread things out across more screens. I'm putting it off as long
as I can as I prefer all the basic data on one screen.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Gray
Sent: Saturday, October 13, 2001 4:23 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] using metric

I have set the metric parameter. the tmeperatures are reading perfectly
but I do not know if the wind speed is or not.

On the first menu, the wind speed shows along wiht the gust information.
there are no units shown. On the second menu, it displays yesterdays gust
and it says that it is in MPH. Based upon the number displayed, it seems
to be in the same units as the first menu (todays information).

1. When the metric flag is set, what are the units for wind speed? The
software (comments) seems to imolly Kilometres per hour?

2. is the max gust for yesterday displayed in the saem unit (and the MPH in
the display is incorrect) OR is the max gust converted to MPH?

Bill Gray
North Bay, Ontario

You are currently subscribed to wxsig as: will@beals5.com

To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] Unbuilt T-238 For Sale

From: ZarubaJr@aol.com
Date: Sun, 14 Oct 2001 17:57:28 EDT
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-41765-2001.10.14-17.23.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Listers,

I have a T-238 and accessories that I won't be able to assemble for quite some time. So, in the interst of reducing shack clutter, I thought I would see if they could find a better home. Here's the list:

T-238 One Wire Weather Station
AAG Wind Sensor v2.0
Dallas One Wire Rain Guage

I have over $260 invested, I'll take $250 and throw in a Dallas One Wire Humidity Sensor experimenter's kit (P/N 90-HS01K-000), and I'll pay shipping to any address in the lower 48.

73,

John AA2BN
aa2bn@arrl.net

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] Re: Unbuilt T-238 For Sale

From: VTuff59795@aol.com
Date: Sun, 14 Oct 2001 18:45:55 EDT
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-41771-2001.10.14-18.11.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi John,
I'll take it. Can I pay you and have it delivered to my office in Florida and I'll pick it up later this month or November when I'm over there? I can pay with a money order (Western Union) or PayPal.

73's

Vic Tuff
G7PYR
Tel: +44 (0) 7802 449658

13. [wxsig] Re: Unbuilt T-238 For Sale

From: ZarubaJr@aol.com
Date: Sun, 14 Oct 2001 21:49:50 EDT
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-41796-2001.10.14-21.15.38--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Vic,

Sure, no problem. Give me the address where you'd like the gear sent. I'm enrolled in Paypal, so that's not a problem either. When I'm notified of your payment, I'll ship the gear and send you a UPS tracking number.

73,

John AA2BN

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] Re: Unbuilt T-238 For Sale

From: ZarubaJr@aol.com
Date: Sun, 14 Oct 2001 21:50:42 EDT
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-41797-2001.10.14-21.16.32--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Listers,

The T-238 and accessories have been spoken for.

73,

John AA2BN

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] RE: using metric

From: "Bill Gray" <bill.gray@thot.net>
Date: Mon, 15 Oct 2001 6:53:40
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-41839-2001.10.15-07.19.42--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The version number is 1-12-5.s19. I have modified the wireids.asm to use
the metric flag and to include the ids for direction etc. then re-compiled
and programmed using the toolset from Motorola.

It may be only the display on the second menu showing 'MPH'.

Bill Gray

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] Re: case for the t238

From: Russ Hummel <hummel@HSC.VCU.EDU>
Date: Mon, 15 Oct 2001 12:22:46 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-41850-2001.10.15-11.48.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I used a case I bought TEN-TEC . It was just the right size for the board
and LCD display. I mounted the 5 switches and the Led on the front just
below the LCD.. I will try and see if the case has a Part Number
good luck

Russ WB4PGT

At 03:18 PM 10/12/01 +0000, you wrote:
>Hello just finish the t238. It was easier then expected about 2.5 hours. It
>is up and running great. Now that it is running does anyone know of a good
>case to use. I don't what to leave it with just the board. Thanks For the
>Help. Tim
>
>---
>You are currently subscribed to wxsig as: hummel@hsc.vcu.edu
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

Russ Hummel
Departments of Surgery & Anesthesiology
Biomedical Engineer for the MedITAC Research Lab
P.O.Box 980480 MCV
Richmond, VA 23298-0695
Medical College of VA @ VCU
804-828-2212

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

17. [wxsig] RE: using metric

From: "William Beals" <will@beals5.com>
Date: Mon, 15 Oct 2001 22:35:38 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-41929-2001.10.16-00.01.43--lyris.wxsig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Bill:

Thanks for the more detailed explanation. I did find the typo and fixed it.
It is only a typo, the units are correct. If you want to fix it yourself
until I get the next release out you can as you are already "skilled in the
art" of the Motorola tools. Go to tables.asm fo;e and search for bbanrs:
label. Entry #7 is the second metric status screen, change the MPK to KPH.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Gray
Sent: Monday, October 15, 2001 6:54 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: using metric

The version number is 1-12-5.s19. I have modified the wireids.asm to use
the metric flag and to include the ids for direction etc. then re-compiled
and programmed using the toolset from Motorola.

It may be only the display on the second menu showing 'MPH'.

Bill Gray

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

18. [wxsig] RE: using metric

From: "Bill Gray" <bill.gray@thot.net>
Date: Tue, 16 Oct 2001 18:36:38
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-42045-2001.10.16-19.02.22--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will:

Thanks for the quick reply. I found and changed it. I'll reprogram the
machine this weekend.

Thanks again.

Bill Gray

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

19. [wxsig] T-238 AND WinAprs

From: "Tim Siegel" <iceman@wesnet.com>
Date: Sat, 20 Oct 2001 21:58:25
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-42645-2001.10.20-22.24.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ok i have the t-238 running with my weather station. I am running Winaprs
and use a older kantronics tnc for that. How do i get the Aprs program to
use my data from the t-238. I can get the t-238 to send data to the tnc
when it is hooked up to it and transmit on packet. But when i send the data
from the t-238 to the computer the aprs program does receive it. There is
no dallas weather station set-up many others. Thanks for any help givin.
Tim KC8OIG

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

20. [wxsig] Re: T-238 AND WinAprs

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sat, 20 Oct 2001 21:04:15 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-42649-2001.10.20-22.30.20--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Tim,

Put the T238 into the Peet output mode and set Winaprs for Peet and it
should work. Let us know what happens.

Russ   KB0TVJ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: Tim Siegel <iceman@wesnet.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Saturday, October 20, 2001 9:58 PM
Subject: [wxsig] T-238 AND WinAprs

> Ok i have the t-238 running with my weather station. I am running Winaprs
> and use a older kantronics tnc for that. How do i get the Aprs program to
> use my data from the t-238. I can get the t-238 to send data to the tnc
> when it is hooked up to it and transmit on packet. But when i send the
data
> from the t-238 to the computer the aprs program does receive it. There is
> no dallas weather station set-up many others. Thanks for any help givin.
> Tim KC8OIG
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

November 2001

Original source file: wxsig.0111
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0111

1. [wxsig] T238 temperature error using DS2438

From: "William Beals" <will@beals5.com>
Date: Wed, 21 Nov 2001 21:00:17 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-48124-2001.11.22-10.04.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Long time no post!

I am working on some new stuff, but work is interfering with fun as usual.

Russ has pointed out an error in the current release (1.12.5) where if you
are using the DS2438 for your "main" temperature sensor, it does not report
temperatures below freezing. I take the absolute value of that reading in a
part of my code (in degrees C) and forgot to convert it back to negative
when I was done. This had no negative impact on humidity readings, but when
I added support for the DS2438 for the main temperature reading, I did not
catch this inconsistency.

The workaround for now is to go back to the DS19(s)20 for your main
temperature sensor. I have the fixes in the code, but am in the middle of
the dewpoint software and it is not releasable.

In other news: I have a version of MON08 that actually works in a DOS
window. I've tried it several times and it appears to be pretty stable. I
found a library that provides interrupt driven UART support that works in a
DOS window.

will

==
This message sent using 100% recycled electrons.
(Minimum 30% post-consumer content)
==
Will Beals (mobile)
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Re: T238 temperature error using DS2438

From: Steve Dimse <k4hg@tapr.org>
Date: Thu, 22 Nov 2001 10:41:46 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-48125-2001.11.22-10.09.07--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 11/21/01 11:00 PM William Beals (will@beals5.com) wrote:

>The workaround for now is to go back to the DS19(s)20 for your main
>temperature sensor.

A better work-around is to live where it never freezes!

Steve K4HG (temp 77, perfect Thanksgiving weather)

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Re: T238 temperature error using DS2438

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Thu, 22 Nov 2001 19:40:27 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-48279-2001.11.23-10.34.30--lyris.wxsig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Thanks for rubbing it in Steve.

----- Original Message -----
From: "Steve Dimse" <k4hg@tapr.org>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Thursday, November 22, 2001 9:41 AM
Subject: [wxsig] Re: T238 temperature error using DS2438

> On 11/21/01 11:00 PM William Beals (will@beals5.com) wrote:
>
> >The workaround for now is to go back to the DS19(s)20 for your main
> >temperature sensor.
>
> A better work-around is to live where it never freezes!
>
> Steve K4HG (temp 77, perfect Thanksgiving weather)
>
> ---
> You are currently subscribed to wxsig as: wn0x@earthlink.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] SKYWARN RECONITION DAY

From: "Ken" <n9zip@home.com>
Date: Fri, 30 Nov 2001 15:10:02 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-49411-2001.11.30-15.38.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

SKYWARN Recognition Day
December 1, 2001 00 UTC to 24 UTC

A number of NWS Stations well be running APRS

For more info:

http://hamradio.noaa.gov

Ken N9ZIP
NWS (IWX)

December 2001

Original source file: wxsig.0112
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0112

1. [wxsig] 1.13.0 Release Notes

From: "William Beals" <will@beals5.com>
Date: Sat, 1 Dec 2001 20:59:46 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-49615-2001.12.01-22.25.48--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Version 1.13.0 is up on the website (http://www.beals5.com/wx).
I also have a new downloader. Still DOS, but should work under Windows.

This release has the following updates:
1) Now show dewpoint as well as percent relative humidity.
2) Broke first status screen into two screens (ran out of room!)
3) Removed Humidity "02" debug messages
4) (hopefully) fixed battery voltage monitoring.
5) Fixed a typo in the metric status page
6) Fixed a bug where humidity-based temperature could not go below 0 degrees
C.

Here are the known issues:
1) Dewpoint calculations could be off by 1-3 degrees due to rounding errors
in my math routines. This will be nasty to fix, but I didn't want to hold
up the release for this.
2) Dewpoint is always calculated using the humidity sensors temperature
reading. This
can occasionally show weird-looking data if your temperature sensor and
humidity sensor
are not co-located
3) Russ has a station that cannot report temperatures below 0 degrees F.
Other similarly configured stations can, so this is an open issue.

I am mainly interested in feedback regarding strange dewpoint readings. I
have limited ability to do decent boundary checking on this math. As
dewpoint is just a displayed value, even if I messed something up, you
should not transmit bad data.

NEW DOWNLOADER
==============
On the downloads page is a new DOS downloader that uses an interrupt-driven
library for the serial communications. This ends up meshing reasonably with
Windows and allows a download from a DOS box under windows. I have only
used it a few times on a few programs and it has worked pretty well. My
sampling is pretty limited and I managed to crash the DOS box quite a few
times during development, but once running it has been pretty stable. I
encourage you to give it a try and provide feedback to the reflector.

will

==
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Re: wxsig digest: December 01, 2001

From: David Meadows <david.meadows@sympatico.ca>
Date: Fri, 07 Dec 2001 22:37:20 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-50823-2001.12.07-22.05.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 01:00 AM 02/12/01 , you wrote:
>TAPR WX Special Interest Group Digest for Saturday, December 01, 2001.
>
>1. 1.13.0 Release Notes
>
>--
>
>Subject: 1.13.0 Release Notes
>From: "William Beals" <will@beals5.com>
>Date: Sat, 1 Dec 2001 20:59:46 -0700
>X-Message-Number: 1
>
>Folks:
>
>Version 1.13.0 is up on the website (http://www.beals5.com/wx).
>I also have a new downloader. Still DOS, but should work under Windows.
>
>This release has the following updates:
>1) Now show dewpoint as well as percent relative humidity.
>2) Broke first status screen into two screens (ran out of room!)
>3) Removed Humidity "02" debug messages
>4) (hopefully) fixed battery voltage monitoring.
>5) Fixed a typo in the metric status page
>6) Fixed a bug where humidity-based temperature could not go below 0 degrees
>C.
>
>Here are the known issues:
>1) Dewpoint calculations could be off by 1-3 degrees due to rounding errors
>in my math routines. This will be nasty to fix, but I didn't want to hold
>up the release for this.
>2) Dewpoint is always calculated using the humidity sensors temperature
>reading. This
>can occasionally show weird-looking data if your temperature sensor and
>humidity sensor
>are not co-located
>3) Russ has a station that cannot report temperatures below 0 degrees F.
>Other similarly configured stations can, so this is an open issue.
>
>I am mainly interested in feedback regarding strange dewpoint readings. I
>have limited ability to do decent boundary checking on this math. As
>dewpoint is just a displayed value, even if I messed something up, you
>should not transmit bad data.
>
>NEW DOWNLOADER
>==============
>On the downloads page is a new DOS downloader that uses an interrupt-driven
>library for the serial communications. This ends up meshing reasonably with
>Windows and allows a download from a DOS box under windows. I have only
>used it a few times on a few programs and it has worked pretty well. My
>sampling is pretty limited and I managed to crash the DOS box quite a few
>times during development, but once running it has been pretty stable. I
>encourage you to give it a try and provide feedback to the reflector.
>
>will
>
>===
>This message sent using 100% recycled electrons.
>(minimum 30% post-consumer)
>===
>Will Beals
>15014 East Idaho Place
>Aurora, CO 80012
>303-755-0293
>will@beals5.com

Will:

Loaded 1-13-0 using mon08i with no problem . The 1 wire bus reads 4.8V but the
Bty reads 3.5V

Here is a set of reading that I took over the Last 12 Hours

Temp   RH   DP
37   52   28
37   51   27
36   52   27   Ottawa Weather Station   Temp 39.2
RH 48   DP 21.6
                                        About 20 Miles from me
32   59   27

29   60   25
The DOS Windows loader worked great the first time, no problem at all
My temp Sensor and RH sensor are about 3 feet apart.

>
>
>
>
>---
>
>END OF DIGEST
>
>---
>You are currently subscribed to wxsig as: david.meadows@sympatico.ca
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

David Meadows VE3AFZ
Ottawa Ontario Canada
Maidenhead FN25ai
Tel. 613-599-8746
Fax. 613-599-9845

3. [wxsig] Temperature & humidity only?

From: Arnold Harding <kq6di@attbi.com>
Date: Sun, 09 Dec 2001 15:37:34 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-51179-2001.12.09-18.06.46--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Is it possible to use the T-238 for Temperature and humidity only?

I may have the oportunity to put this at an APRS digipeter (Ham Radio)
that is at a commercial radio site. I don't believe I will be able to
find a spot for windspeed and direction, but temperature and humitity
should be easy to find a location.

Can I just omit the wind speed and direction, or do I need to include
fake devices for the t-238 to find?

Thanks, Arnold Harding

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] Re: wxsig digest: December 01, 2001

From: "William Beals" <will@beals5.com>
Date: Sun, 9 Dec 2001 18:41:36 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-51192-2001.12.09-20.07.47--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

David:

Thanks for the feedback. Looks like the data is pretty decent looking.

will

  Will:

  Loaded 1-13-0 using mon08i with no problem . The 1 wire bus reads 4.8V but
the Bty reads 3.5V

  Here is a set of reading that I took over the Last 12 Hours

  Temp   RH   DP
  37   52   28
  37   51   27
  36   52   27   Ottawa Weather Station   Temp 39.2
RH 48   DP 21.6
                                              About 20 Miles from me
  32   59   27
  29   60   25
  The DOS Windows loader worked great the first time, no problem at all

My temp Sensor and RH sensor are about 3 feet apart.

5. [wxsig] RE: Temperature & humidity only?

From: "William Beals" <will@beals5.com>
Date: Sun, 9 Dec 2001 20:05:28 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-51203-2001.12.09-21.31.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Arnold:

I looked over the code because I knew I checked a few things on power-up to
decide if it was OK to go straight to weather mode or go to the menus if no
sensors were programmed. It looks like the only sensor whose ID I check is
temperature. Based on this you should be OK. I would suggest checking it
out first before you go climbing poles or something. That is not a
configuration I have explicitly checked, so there may be a surprize or two.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
Sent: Sunday, December 09, 2001 4:38 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Temperature & humidity only?

Is it possible to use the T-238 for Temperature and humidity only?

I may have the oportunity to put this at an APRS digipeter (Ham Radio)
that is at a commercial radio site. I don't believe I will be able to
find a spot for windspeed and direction, but temperature and humitity
should be easy to find a location.

Can I just omit the wind speed and direction, or do I need to include
fake devices for the t-238 to find?

Thanks, Arnold Harding

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] RE: Temperature & humidity only?

From: Arnold Harding <kq6di@attbi.com>
Date: Sun, 09 Dec 2001 19:15:57 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-51205-2001.12.09-21.45.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I expected to need fake sensors. A maybe is a good answer.. I'll give
it a try.

thanks Arnold kq6di

William Beals wrote:
>
> Arnold:
>
> I looked over the code because I knew I checked a few things on power-up to
> decide if it was OK to go straight to weather mode or go to the menus if no
> sensors were programmed. It looks like the only sensor whose ID I check is
> temperature. Based on this you should be OK. I would suggest checking it
> out first before you go climbing poles or something. That is not a
> configuration I have explicitly checked, so there may be a surprize or two.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
> Sent: Sunday, December 09, 2001 4:38 PM
> To: TAPR WX Special Interest Group

> Subject: [wxsig] Temperature & humidity only?
>
> Is it possible to use the T-238 for Temperature and humidity only?
>
> I may have the oportunity to put this at an APRS digipeter (Ham Radio)
> that is at a commercial radio site. I don't believe I will be able to
> find a spot for windspeed and direction, but temperature and humitity
> should be easy to find a location.
>
> Can I just omit the wind speed and direction, or do I need to include
> fake devices for the t-238 to find?
>
> Thanks, Arnold Harding
>
> ---
> You are currently subscribed to wxsig as: will@beals5.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] 'extra' parts list

From: Arnold Harding <kq6di@attbi.com>
Date: Mon, 10 Dec 2001 17:54:12 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-51394-2001.12.10-20.23.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Is there a list of the extra Dallas parts somewhere?

Which real time clock?

What's the part number of the temperature & humidity sensor?

Any other goodies I may want?

thanks, Arnold, kq6di

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] Re: 'extra' parts list

From: "Clay Bartholow" <w0led@arrl.net>
Date: Tue, 11 Dec 2001 11:13:59
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-51509-2001.12.11-11.42.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi,
My answer is incomplete but here's some info:

Real Time Clock = DS1994 + DS9094 iButton clip (like a "coin" battery
holder),

Temp sensor = DS18S20

Humidity sensor = ??? I don't remember this right off hand but here's the
URL --- http://www.ibutton.com/weather/humidity.html --- check here for
more info,

The URL for the 1-wire weather-related "stuff" is ---
http://www.ibutton.com/weather/

Hope that helps --- maybe others have some of the info I couldn't
supply...

Clay W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] RE: 'extra' parts list

From: "William Beals" <will@beals5.com>
Date: Tue, 11 Dec 2001 16:10:13 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-51563-2001.12.11-17.48.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Arnold:

The real-time clock supported by the T238 is the DS1994 i-button. It comes in a coin-cell package, so you need a reader for it too. When I got my last one, you could get a nice "kit" that included the DS1994, reader, and RS-232 adapter (for programming it on your PC). Dallas has a bunch of other cool i-button products, so the reader has other uses if you start tinkering with those devices.

The part number for the temperature sensor is a DS19S20. It comes inside the wind/temperature unit unless you are building your own from scratch.

The humidity sensor is a board available from Dallas Semiconductors website. It is based on a chip called a DS2438 which is actually intended for battery monitoring purposes.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
Sent: Monday, December 10, 2001 6:54 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] 'extra' parts list

Is there a list of the extra Dallas parts somewhere?

Which real time clock?

What's the part number of the temperature & humidity sensor?

Any other goodies I may want?

thanks, Arnold, kq6di

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] Time of Day on T238 Display

From: "David Meadows" <david.meadows@sympatico.ca>
Date: Wed, 12 Dec 2001 17:57:55
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-51732-2001.12.12-18.26.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will:

My clock time runs slow on the display. There seems to be a corelation with the Wdir error rate. I seldom get any errors except for Wdir which seems to cause the clock to run slow. The Wdir errors come in batches.

My question is, does the DS1994 Time iButton control the time on start up only, or does it become the sole source of time for the T-238. The new software load continues to perform well (no crashes).

David Meadows
VE3AFZ
Ottawa Canada

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] RE: Time of Day on T238 Display

From: "William Beals" <will@beals5.com>
Date: Wed, 12 Dec 2001 21:18:29 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-51780-2001.12.12-22.44.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

David:

You are the second one to ask. Alas I only read the clock on power-up. I
will bump this up on the priority list. The tricky bit is that I will have
to stop weather sampling to do this (not so hard), but account for it in the
averaging stuff (harder).

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of David Meadows
Sent: Wednesday, December 12, 2001 5:58 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Time of Day on T238 Display

Will:

My clock time runs slow on the display. There seems to be a corelation with
the Wdir error rate. I seldom get any errors except for Wdir which seems to
cause the clock to run slow. The Wdir errors come in batches.

My question is, does the DS1994 Time iButton control the time on start up
only, or does it become the sole source of time for the T-238. The new
software load continues to perform well (no crashes).

David Meadows
VE3AFZ
Ottawa Canada

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] RE: Time of Day on T238 Display

From: Arnold Harding <kq6di@attbi.com>
Date: Wed, 12 Dec 2001 20:48:48 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-51785-2001.12.12-23.18.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,
As a thought, you might only read the clock once each day. I don't
know how far off time could get in a day, so more often may be
necessary. I guess you'll need to decide how fast it gets off, and how
accurate you are trying to keep time.

73 Arnold

William Beals wrote:
>
> David:
>
> You are the second one to ask. Alas I only read the clock on power-up. I
> will bump this up on the priority list. The tricky bit is that I will have
> to stop weather sampling to do this (not so hard), but account for it in the
> averaging stuff (harder).
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of David Meadows

> Sent: Wednesday, December 12, 2001 5:58 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Time of Day on T238 Display
>
> Will:
>
> My clock time runs slow on the display. There seems to be a corelation with
> the Wdir error rate. I seldom get any errors except for Wdir which seems to
> cause the clock to run slow. The Wdir errors come in batches.
>
> My question is, does the DS1994 Time iButton control the time on start up
> only, or does it become the sole source of time for the T-238. The new
> software load continues to perform well (no crashes).
>
> David Meadows
> VE3AFZ
> Ottawa Canada
>
> ---
> You are currently subscribed to wxsig as: will@beals5.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

13. [wxsig] Re: Time of Day on T238 Display

From: Bill Wallick <Bill@ka0wuc.org>
Date: Thu, 13 Dec 2001 08:38:57 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-51855-2001.12.13-10.35.22--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

David;

The other option would be to put the 470k ohm resister fix into your
Weather Head. This completely eliminates the wind direction errors, and
thus the time keeping errors. Worked for me.

Bill Wallick
KC0FNV
Colorado

----- Original Message -----
Subject: Time of Day on T238 Display
From: "David Meadows" <david.meadows@sympatico.ca>
Date: Wed, 12 Dec 2001 17:57:55
X-Message-Number: 1

Will:

My clock time runs slow on the display. There seems to be a corelation
with
the Wdir error rate. I seldom get any errors except for Wdir which seems
to
cause the clock to run slow. The Wdir errors come in batches.

My question is, does the DS1994 Time iButton control the time on start
up
only, or does it become the sole source of time for the T-238. The new
software load continues to perform well (no crashes).

David Meadows
VE3AFZ
Ottawa Canada

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] Re: Time of Day on T238 Display

From: Arnold Harding <kq6di@attbi.com>
Date: Thu, 13 Dec 2001 17:16:01 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-51933-2001.12.13-19.45.32--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

OK, I give. I looked through all of my saved messages (didn't save
everything) and I didn't see anything about the 470k ohm fix. Can you
enlighten me? Thanks

Arnold Harding
KQ6DI
California

Bill Wallick wrote:
>
> David;
>
> The other option would be to put the 470k ohm resister fix into your
> Weather Head. This completely eliminates the wind direction errors, and
> thus the time keeping errors. Worked for me.
>
> Bill Wallick
> KC0FNV
> Colorado
>
> ----- Original Message -----
> Subject: Time of Day on T238 Display
> From: "David Meadows" <david.meadows@sympatico.ca>
> Date: Wed, 12 Dec 2001 17:57:55
> X-Message-Number: 1
>
> Will:
>
> My clock time runs slow on the display. There seems to be a corelation
> with
> the Wdir error rate. I seldom get any errors except for Wdir which seems
> to
> cause the clock to run slow. The Wdir errors come in batches.
>
> My question is, does the DS1994 Time iButton control the time on start
> up
> only, or does it become the sole source of time for the T-238. The new
> software load continues to perform well (no crashes).
>
> David Meadows
> VE3AFZ
> Ottawa Canada
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] Re: Time of Day on T238 Display

From: Bill Wallick <Bill@ka0wuc.org>
Date: Fri, 14 Dec 2001 08:48:22 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52030-2001.12.14-10.25.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Just to make it easier,,, I will attach the original post on this
subject.

Message: 5
From: Dan Awtrey <Dan.Awtrey@dalsemi.com>
To: "'weather@dalsemi.com'" <weather@dalsemi.com>
Subject: RE: [weather] DS2401 keep-alive resistors
Date: Thu, 12 Jul 2001 10:33:21 -0500
boundary="----_=_NextPart_001_01C10AE7.FB836520"
Reply-To: weather@dalsemi.com

Brian,

Thanks for bringing up the subject of adding resistors on the
weather station board again.

The value of the resistors (470K not 470 Ohms) was chosen
such as to be able to supply the "leakage" or "keep-alive"
current of the DS2401s. By adding a 470K resistor in
parallel with each reed switch and across the DS2406, the
master sees a load of 528K (470K/8 = 58.7K in series with
470K)or about 9uA. While this is sufficient to maintain the
DS2401s and prevent a Presence Pulse from being generated, it
is far below that necessary for the parts to be able to
communicate with the master.

When the DS2406 is open, except for any DS2401 whose reed
switch is closed, each DS2401 only has half the supply
voltage across it. In the case of the DS2401(s) that do have
their reed switch closed, the 470K between them and the GND
lead prevents them from generating a logic zero level. So,
unless the DS2406 is closed to short out the 470K resistor
across its terminals AND the reed switch for a particular
DS2401 is closed to short its 470K resistor, the part is
effectively incognito on the net.

Hopefully, this will give a clearer understanding of the
concept. Perhaps those members who have added these
resistors can share the method they used to mount them.

Regards,

Dan Awtrey   Staff Engineer
Dallas Semiconductor   Phone: 972-371-6297
Building C   FAX: 972-371-3715
4401 S. Beltwood Pkwy.   E-mail: dan.awtrey@dalsemi.com
Dallas, TX 75244-3292

Subject: Re: Time of Day on T238 Display
From: Arnold Harding <kq6di@attbi.com>
Date: Thu, 13 Dec 2001 17:16:01 -0800
X-Message-Number: 2

OK, I give. I looked through all of my saved messages (didn't save
everything) and I didn't see anything about the 470k ohm fix. Can you
enlighten me? Thanks

Arnold Harding
KQ6DI
California

Bill Wallick wrote:
>
> David;
>
> The other option would be to put the 470k ohm resister fix into your
> Weather Head. This completely eliminates the wind direction errors,
and
> thus the time keeping errors. Worked for me.
>
> Bill Wallick
> KC0FNV
> Colorado
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] Downloading

From: Arnold Harding <kq6di@attbi.com>
Date: Sat, 15 Dec 2001 13:58:43 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52190-2001.12.15-16.27.04--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have version 1.1.1r currently. I'm trying to upgrade by downloading
1-12-5.s19 via mon08i.
mon08i 1-12-5.s19 1
I get to the point where it says "contacting 6808..." 10 minutes
later, it's still there. I am using the lower (2nd) sequence of
instructions on Will's site. I am connected to the Computer port on
the board, and port 1 of my PC.

What am I doing wrong this time, or can someone point me at other
instructions.

thanks
Arnold Harding
kq6di

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

17. [wxsig] Re: Downloading

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sat, 15 Dec 2001 22:11:54 -0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52192-2001.12.15-16.40.23--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Arnold,

Did you put the T238 in monitor mode by pressing two of the buttons as you
power up?

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: "Arnold Harding" <kq6di@attbi.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Saturday, December 15, 2001 9:58 PM
Subject: [wxsig] Downloading

> I have version 1.1.1r currently. I'm trying to upgrade by downloading
> 1-12-5.s19 via mon08i.
> mon08i 1-12-5.s19 1
> I get to the point where it says "contacting 6808..." 10 minutes
> later, it's still there. I am using the lower (2nd) sequence of
> instructions on Will's site. I am connected to the Computer port on
> the board, and port 1 of my PC.
>
> What am I doing wrong this time, or can someone point me at other
> instructions.
>
> thanks
> Arnold Harding
> kq6di
>
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

18. [wxsig] Re: Downloading

From: Arnold Harding <kq6di@attbi.com>
Date: Sat, 15 Dec 2001 14:22:54 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52193-2001.12.15-16.51.17--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yep, sure did. I didn't move any jumpers (per instructions).
arnold

Russ Chadwick wrote:

>
> Hi Arnold,
>
> Did you put the T238 in monitor mode by pressing two of the buttons as you
> power up?
>
> Russ
> Boulder, CO
> http://www.users.qwest.net/~crb5/
>
> ----- Original Message -----
> From: "Arnold Harding" <kq6di@attbi.com>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Saturday, December 15, 2001 9:58 PM
> Subject: [wxsig] Downloading
>
> > I have version 1.1.1r currently. I'm trying to upgrade by downloading
> > 1-12-5.s19 via mon08i.
> > mon08i 1-12-5.s19 1
> > I get to the point where it says "contacting 6808..." 10 minutes
> > later, it's still there. I am using the lower (2nd) sequence of
> > instructions on Will's site. I am connected to the Computer port on
> > the board, and port 1 of my PC.
> >
> > What am I doing wrong this time, or can someone point me at other
> > instructions.
> >
> > thanks
> > Arnold Harding
> > kq6di
> >
> > ---
> > You are currently subscribed to wxsig as: crb5@uswest.net
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> >
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

19. [wxsig] Re: Downloading

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sat, 15 Dec 2001 22:37:45 -0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52194-2001.12.15-17.06.15--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have not used Will's new mon08i program and so have no experience with it.
Using the mon08.exe program under DOS (not a DOS window), I know that you
should be able to put the T238 in monitor mode and enter

mon08 1-12-5.s19 1

where you are using COM1 on the PC and it will work. I did this just
yesterday and it worked fine. You might try using mon08 under DOS and see
if that works on your set-up.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: "Arnold Harding" <kq6di@attbi.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Saturday, December 15, 2001 10:22 PM
Subject: [wxsig] Re: Downloading

> Yep, sure did. I didn't move any jumpers (per instructions).
> arnold
>
> Russ Chadwick wrote:
> >
> > Hi Arnold,

> >
> > Did you put the T238 in monitor mode by pressing two of the buttons as
you
> > power up?
> >
> > Russ
> > Boulder, CO
> > http://www.users.qwest.net/~crb5/
> >
> > ----- Original Message -----
> > From: "Arnold Harding" <kq6di@attbi.com>
> > To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> > Sent: Saturday, December 15, 2001 9:58 PM
> > Subject: [wxsig] Downloading
> >
> > > I have version 1.1.1r currently. I'm trying to upgrade by downloading
> > > 1-12-5.s19 via mon08i.
> > > mon08i 1-12-5.s19 1
> > > I get to the point where it says "contacting 6808..." 10 minutes
> > > later, it's still there. I am using the lower (2nd) sequence of
> > > instructions on Will's site. I am connected to the Computer port on
> > > the board, and port 1 of my PC.
> > >
> > > What am I doing wrong this time, or can someone point me at other
> > > instructions.
> > >
> > > thanks
> > > Arnold Harding
> > > kq6di
> > >
> > > ---
> > > You are currently subscribed to wxsig as: crb5@uswest.net
> > > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> > >
> > >
> >
> > ---
> > You are currently subscribed to wxsig as: kq6di@attbi.com
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>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

20. [wxsig] Re: Downloading

From: Arnold Harding <kq6di@attbi.com>
Date: Sat, 15 Dec 2001 14:55:56 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52197-2001.12.15-17.24.18--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Amazing! That worked, and it wasn't even painful.

Since I haven't seen any mention of it, I assume 1-13-0 is a beta
version; so the latest is 1.12.5r I just loaded.

thanks again, Arnold
kq6di

Russ Chadwick wrote:
>
> I have not used Will's new mon08i program and so have no experience with it.
> Using the mon08.exe program under DOS (not a DOS window), I know that you
> should be able to put the T238 in monitor mode and enter
>
> mon08 1-12-5.s19 1
>
> where you are using COM1 on the PC and it will work. I did this just
> yesterday and it worked fine. You might try using mon08 under DOS and see
> if that works on your set-up.
>

> Russ
> Boulder, CO
> http://www.users.qwest.net/~crb5/
>
> ----- Original Message -----
> From: "Arnold Harding" <kq6di@attbi.com>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Saturday, December 15, 2001 10:22 PM
> Subject: [wxsig] Re: Downloading
>
> > Yep, sure did. I didn't move any jumpers (per instructions).
> > arnold
> >
> > Russ Chadwick wrote:
> > >
> > > Hi Arnold,
> > >
> > > Did you put the T238 in monitor mode by pressing two of the buttons as
> you
> > > power up?
> > >
> > > Russ
> > > Boulder, CO
> > > http://www.users.qwest.net/~crb5/
> > >
> > > ----- Original Message -----
> > > From: "Arnold Harding" <kq6di@attbi.com>
> > > To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> > > Sent: Saturday, December 15, 2001 9:58 PM
> > > Subject: [wxsig] Downloading
> > >
> > > > I have version 1.1.1r currently. I'm trying to upgrade by downloading
> > > > 1-12-5.s19 via mon08i.
> > > > mon08i 1-12-5.s19 1
> > > > I get to the point where it says "contacting 6808..." 10 minutes
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> > > > instructions on Will's site. I am connected to the Computer port on
> > > > the board, and port 1 of my PC.
> > > >
> > > > What am I doing wrong this time, or can someone point me at other
> > > > instructions.
> > > >
> > > > thanks
> > > > Arnold Harding
> > > > kq6di
> > > >
> > > > ---
> > > > You are currently subscribed to wxsig as: crb5@uswest.net
> > > > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> > > >
> > > >
> > >
> > > ---
> > > You are currently subscribed to wxsig as: kq6di@attbi.com
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> >
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

21. [wxsig] Re: Downloading

From: "Russ Chadwick" <crb5@qwest.net>
Date: Sat, 15 Dec 2001 23:09:24 -0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52202-2001.12.15-17.37.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The latest version, 1-13-0 fixes an earlier problem when using the
temperature from the DS2438 chip on the humidity sensor as the primary

temperature. So, for the 1.12.5r version, don't select the option to use
the humidity sensor temperature as the measured temperature.

It also adds the capability to display the calculated dew point temperature
on the LCD. To get the space to display dew point, Will had to add another
screen. So, there is one more screen.

We've seen an indication that there is something funny with the buss voltage
measurement in 1-13-0 that was not there in the earlier versions. Still
checking that out.

Russ
Boulder, CO
http://www.users.qwest.net/~crb5/

----- Original Message -----
From: "Arnold Harding" <kq6di@attbi.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Saturday, December 15, 2001 10:55 PM
Subject: [wxsig] Re: Downloading

> Amazing! That worked, and it wasn't even painful.
>
> Since I haven't seen any mention of it, I assume 1-13-0 is a beta
> version; so the latest is 1.12.5r I just loaded.
>
> thanks again, Arnold
> kq6di
>
>
> Russ Chadwick wrote:
> >
> > I have not used Will's new mon08i program and so have no experience with
it.
> > Using the mon08.exe program under DOS (not a DOS window), I know that
you
> > should be able to put the T238 in monitor mode and enter
> >
> > mon08 1-12-5.s19 1
> >
> > where you are using COM1 on the PC and it will work. I did this just
> > yesterday and it worked fine. You might try using mon08 under DOS and
see
> > if that works on your set-up.
> >
> > Russ
> > Boulder, CO
> > http://www.users.qwest.net/~crb5/
> >
> > ----- Original Message -----
> > From: "Arnold Harding" <kq6di@attbi.com>
> > To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> > Sent: Saturday, December 15, 2001 10:22 PM
> > Subject: [wxsig] Re: Downloading
> >
> > > Yep, sure did. I didn't move any jumpers (per instructions).
> > > arnold
> > >
> > > Russ Chadwick wrote:
> > > >
> > > > Hi Arnold,
> > > >
> > > > Did you put the T238 in monitor mode by pressing two of the buttons
as
> > you
> > > > power up?
> > > >
> > > > Russ
> > > > Boulder, CO
> > > > http://www.users.qwest.net/~crb5/
> > > >
> > > > ----- Original Message -----
> > > > From: "Arnold Harding" <kq6di@attbi.com>
> > > > To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> > > > Sent: Saturday, December 15, 2001 9:58 PM
> > > > Subject: [wxsig] Downloading
> > > >
> > > > > I have version 1.1.1r currently. I'm trying to upgrade by

downloading
> > > > > 1-12-5.s19 via mon08i.
> > > > > mon08i 1-12-5.s19 1
> > > > > I get to the point where it says "contacting 6808..." 10 minutes
> > > > > later, it's still there. I am using the lower (2nd) sequence of
> > > > > instructions on Will's site. I am connected to the Computer port
on
> > > > > the board, and port 1 of my PC.
> > > > >
> > > > > What am I doing wrong this time, or can someone point me at other
> > > > > instructions.
> > > > >
> > > > > thanks
> > > > > Arnold Harding
> > > > > kq6di
> > > > >
> > > > > ---
> > > > > You are currently subscribed to wxsig as: crb5@uswest.net
> > > > > To unsubscribe send a blank email to
leave-wxsig-15067P@lists.tapr.org
> > > > >
> > > > >
> > > > >
> > > > ---
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> > ---
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> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

22. [wxsig] Re: Downloading

From: Arnold Harding <kq6di@attbi.com>
Date: Sat, 15 Dec 2001 15:18:14 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52208-2001.12.15-17.46.39--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

What the heck... I only have the humidity sensor handy at the moment,
and I don't need buss voltage. I'll give it a try.
Arnold Harding

Russ Chadwick wrote:
>
> The latest version, 1-13-0 fixes an earlier problem when using the
> temperature from the DS2438 chip on the humidity sensor as the primary
> temperature. So, for the 1.12.5r version, don't select the option to use
> the humidity sensor temperature as the measured temperature.
>
> It also adds the capability to display the calculated dew point temperature
> on the LCD. To get the space to display dew point, Will had to add another
> screen. So, there is one more screen.
>
> We've seen an indication that there is something funny with the buss voltage
> measurement in 1-13-0 that was not there in the earlier versions. Still
> checking that out.
>
> Russ
> Boulder, CO
> http://www.users.qwest.net/~crb5/
>

> ----- Original Message -----
> From: "Arnold Harding" <kq6di@attbi.com>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Saturday, December 15, 2001 10:55 PM
> Subject: [wxsig] Re: Downloading
>
> > Amazing! That worked, and it wasn't even painful.
> >
> > Since I haven't seen any mention of it, I assume 1-13-0 is a beta
> > version; so the latest is 1.12.5r I just loaded.
> >
> > thanks again, Arnold
> > kq6di
> >
> >
> > Russ Chadwick wrote:
> > >
> > > I have not used Will's new mon08i program and so have no experience with
> it.
> > > Using the mon08.exe program under DOS (not a DOS window), I know that
> you
> > > should be able to put the T238 in monitor mode and enter
> > >
> > > mon08 1-12-5.s19 1
> > >
> > > where you are using COM1 on the PC and it will work. I did this just
> > > yesterday and it worked fine. You might try using mon08 under DOS and
> see
> > > if that works on your set-up.
> > >
> > > Russ
> > > Boulder, CO
> > > http://www.users.qwest.net/~crb5/
> > >
> > > ----- Original Message -----
> > > From: "Arnold Harding" <kq6di@attbi.com>
> > > To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> > > Sent: Saturday, December 15, 2001 10:22 PM
> > > Subject: [wxsig] Re: Downloading
> > >
> > > > Yep, sure did. I didn't move any jumpers (per instructions).
> > > > arnold
> > > >
> > > > Russ Chadwick wrote:
> > > > >
> > > > > Hi Arnold,
> > > > >
> > > > > Did you put the T238 in monitor mode by pressing two of the buttons
> as
> > > you
> > > > > power up?
> > > > >
> > > > > Russ
> > > > > Boulder, CO
> > > > > http://www.users.qwest.net/~crb5/
> > > > >
> > > > > ----- Original Message -----
> > > > > From: "Arnold Harding" <kq6di@attbi.com>
> > > > > To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> > > > > Sent: Saturday, December 15, 2001 9:58 PM
> > > > > Subject: [wxsig] Downloading
> > > > >
> > > > > > I have version 1.1.1r currently. I'm trying to upgrade by
> downloading
> > > > > > 1-12-5.s19 via mon08i.
> > > > > > mon08i 1-12-5.s19 1
> > > > > > I get to the point where it says "contacting 6808..." 10 minutes
> > > > > > later, it's still there. I am using the lower (2nd) sequence of
> > > > > > instructions on Will's site. I am connected to the Computer port
> on
> > > > > > the board, and port 1 of my PC.
> > > > > >
> > > > > > What am I doing wrong this time, or can someone point me at other
> > > > > > instructions.
> > > > > >
> > > > > > thanks
> > > > > > Arnold Harding
> > > > > > kq6di
> > > > > >

> > > > > > ---
> > > > > > > You are currently subscribed to wxsig as: crb5@uswest.net
> > > > > > > To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
> > > > > > >
> > > > > > > >
> > > > > > >
> > > > > > > ---
> > > > > > > You are currently subscribed to wxsig as: kq6di@attbi.com
> > > > > > > To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
> > > > > >
> > > > > > ---
> > > > > > You are currently subscribed to wxsig as: crb5@uswest.net
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> > > > ---
> > > > You are currently subscribed to wxsig as: kq6di@attbi.com
> > > > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> > >
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> >
> >
> >
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

23. [wxsig] Re: Downloading

From: "William Beals" <will@beals5.com>
Date: Sat, 15 Dec 2001 17:50:20 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52211-2001.12.15-19.16.27--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Arnold:

Did you get the download working with mon08 and were not successful with
mon08i?

If so, I'd like to know a bit more about your setup to get an idea why
mon08i didn't work (processor, speed, windows open, etc).

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
Sent: Saturday, December 15, 2001 4:18 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Downloading

What the heck... I only have the humidity sensor handy at the moment,
and I don't need buss voltage. I'll give it a try.
Arnold Harding

Russ Chadwick wrote:
>
> The latest version, 1-13-0 fixes an earlier problem when using the
> temperature from the DS2438 chip on the humidity sensor as the primary
> temperature. So, for the 1.12.5r version, don't select the option to use
> the humidity sensor temperature as the measured temperature.
>
> It also adds the capability to display the calculated dew point
temperature
> on the LCD. To get the space to display dew point, Will had to add
another
> screen. So, there is one more screen.
>
> We've seen an indication that there is something funny with the buss

voltage
> measurement in 1-13-0 that was not there in the earlier versions. Still
> checking that out.
>
> Russ
> Boulder, CO
> http://www.users.qwest.net/~crb5/
>
> ----- Original Message -----
> From: "Arnold Harding" <kq6di@attbi.com>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Saturday, December 15, 2001 10:55 PM
> Subject: [wxsig] Re: Downloading
>
> > Amazing! That worked, and it wasn't even painful.
> >
> > Since I haven't seen any mention of it, I assume 1-13-0 is a beta
> > version; so the latest is 1.12.5r I just loaded.
> >
> > thanks again, Arnold
> > kq6di
> >
> >
> > Russ Chadwick wrote:
> > >
> > > I have not used Will's new mon08i program and so have no experience
with
> it.
> > > Using the mon08.exe program under DOS (not a DOS window), I know that
> you
> > > should be able to put the T238 in monitor mode and enter
> > >
> > > mon08 1-12-5.s19 1
> > >
> > > where you are using COM1 on the PC and it will work. I did this just
> > > yesterday and it worked fine. You might try using mon08 under DOS and
> see
> > > if that works on your set-up.
> > >
> > > Russ
> > > Boulder, CO
> > > http://www.users.qwest.net/~crb5/
> > >
> > > ----- Original Message -----
> > > From: "Arnold Harding" <kq6di@attbi.com>
> > > To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> > > Sent: Saturday, December 15, 2001 10:22 PM
> > > Subject: [wxsig] Re: Downloading
> > >
> > > > Yep, sure did. I didn't move any jumpers (per instructions).
> > > > arnold
> > > >
> > > > Russ Chadwick wrote:
> > > > >
> > > > > Hi Arnold,
> > > > >
> > > > > Did you put the T238 in monitor mode by pressing two of the
buttons
> as
> > > you
> > > > > power up?
> > > > >
> > > > > Russ
> > > > > Boulder, CO
> > > > > http://www.users.qwest.net/~crb5/
> > > > >
> > > > > ----- Original Message -----
> > > > > From: "Arnold Harding" <kq6di@attbi.com>
> > > > > To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> > > > > Sent: Saturday, December 15, 2001 9:58 PM
> > > > > Subject: [wxsig] Downloading
> > > > >
> > > > > > I have version 1.1.1r currently. I'm trying to upgrade by
> downloading
> > > > > > 1-12-5.s19 via mon08i.
> > > > > > mon08i 1-12-5.s19 1
> > > > > > I get to the point where it says "contacting 6808..." 10
minutes
> > > > > > later, it's still there. I am using the lower (2nd) sequence of

> > > > > > instructions on Will's site. I am connected to the Computer
port
> on
> > > > > > > the board, and port 1 of my PC.
> > > > > > >
> > > > > > > What am I doing wrong this time, or can someone point me at
other
> > > > > > > instructions.
> > > > > > >
> > > > > > > thanks
> > > > > > > Arnold Harding
> > > > > > > kq6di
> > > > > > >
> > > > > > > ---
> > > > > > > You are currently subscribed to wxsig as: crb5@uswest.net
> > > > > > > To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > ---
> > > > > > You are currently subscribed to wxsig as: kq6di@attbi.com
> > > > > > To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
> > > > >
> > > > ---
> > > > You are currently subscribed to wxsig as: crb5@uswest.net
> > > > To unsubscribe send a blank email to
leave-wxsig-15067P@lists.tapr.org
> > > >
> > > >
> > >
> > ---
> > You are currently subscribed to wxsig as: kq6di@attbi.com
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> ---
> You are currently subscribed to wxsig as: crb5@uswest.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> >
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

24. [wxsig] Re: wxsig digest: December 14, 2001

From: David Meadows <david.meadows@sympatico.ca>
Date: Sat, 15 Dec 2001 19:55:34 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52213-2001.12.15-19.24.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will and Others:

Thanks for the quick fix to my time of day problem known as the 470K
solution. Will, as far as I am concerned you can put reading the DS1994 on
a regular interval down the priority list although I have ordered the
DS1994 iButtion from Dallas Semi, will help with the start up of the WX
station. Any word on a BP sensor application, just curious or did I miss
something?

Keep up the good work!

David Meadows
VE3AFZ
Ottawa

At 01:00 AM 15/12/01 , you wrote:
>TAPR WX Special Interest Group Digest for Friday, December 14, 2001.

>
>1. Re: Time of Day on T238 Display
>
>--
>
>Subject: Re: Time of Day on T238 Display
>From: Bill Wallick <Bill@ka0wuc.org>
>Date: Fri, 14 Dec 2001 08:48:22 -0700
>X-Message-Number: 1
>
>Just to make it easier,,, I will attach the original post on this
>subject.
>
>Message: 5
>From: Dan Awtrey <Dan.Awtrey@dalsemi.com>
>To: "'weather@dalsemi.com'" <weather@dalsemi.com>
>Subject: RE: [weather] DS2401 keep-alive resistors
>Date: Thu, 12 Jul 2001 10:33:21 -0500
>boundary="----_=_NextPart_001_01C10AE7.FB836520"
>Reply-To: weather@dalsemi.com
>
>Brian,
>
>Thanks for bringing up the subject of adding resistors on the
>weather station board again.
>
>The value of the resistors (470K not 470 Ohms) was chosen
>such as to be able to supply the "leakage" or "keep-alive"
>current of the DS2401s. By adding a 470K resistor in
>parallel with each reed switch and across the DS2406, the
>master sees a load of 528K (470K/8 = 58.7K in series with
>470K)or about 9uA. While this is sufficient to maintain the
>DS2401s and prevent a Presence Pulse from being generated, it
>is far below that necessary for the parts to be able to
>communicate with the master.
>
>When the DS2406 is open, except for any DS2401 whose reed
>switch is closed, each DS2401 only has half the supply
>voltage across it. In the case of the DS2401(s) that do have
>their reed switch closed, the 470K between them and the GND
>lead prevents them from generating a logic zero level. So,
>unless the DS2406 is closed to short out the 470K resistor
>across its terminals AND the reed switch for a particular
>DS2401 is closed to short its 470K resistor, the part is
>effectively incognito on the net.
>
>Hopefully, this will give a clearer understanding of the
>concept. Perhaps those members who have added these
>resistors can share the method they used to mount them.
>
>Regards,
>
>Dan Awtrey   Staff Engineer
>Dallas Semiconductor   Phone: 972-371-6297
>Building C   FAX: 972-371-3715
>4401 S. Beltwood Pkwy.   E-mail: dan.awtrey@dalsemi.com
>Dallas, TX 75244-3292
>
>--
>
>Subject: Re: Time of Day on T238 Display
>From: Arnold Harding <kq6di@attbi.com>
>Date: Thu, 13 Dec 2001 17:16:01 -0800
>X-Message-Number: 2
>
>OK, I give. I looked through all of my saved messages (didn't save
>everything) and I didn't see anything about the 470k ohm fix. Can you
>enlighten me? Thanks
>
>Arnold Harding
>KQ6DI
>California
>
>Bill Wallick wrote:
>>
>> David;
>>
>> The other option would be to put the 470k ohm resister fix into your
>> Weather Head. This completely eliminates the wind direction errors,

>and
>> thus the time keeping errors. Worked for me.
>>
>> Bill Wallick
>> KC0FNV
>> Colorado
>>
>
>
>
>
>
>
>---
>
>END OF DIGEST
>
>---
>You are currently subscribed to wxsig as: david.meadows@sympatico.ca
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

25. [wxsig] Re: Downloading

From: Arnold Harding <kq6di@attbi.com>
Date: Sat, 15 Dec 2001 16:56:38 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52215-2001.12.15-19.25.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,
Correct, it works with mon08, but not with mon08i.

PIII @ 600 mHz (I think... upgraded processor)
win98 (1st edition)
no windows open (except the DOS window)
port 1 (both mon08 and mon08i)

What else... Maybe ask off reflector until we figure it out? It would
be fun to get it working.

Arnold

William Beals wrote:
>
> Arnold:
>
> Did you get the download working with mon08 and were not successful with
> mon08i?
>
> If so, I'd like to know a bit more about your setup to get an idea why
> mon08i didn't work (processor, speed, windows open, etc).
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
> Sent: Saturday, December 15, 2001 4:18 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: Downloading
>
> What the heck... I only have the humidity sensor handy at the moment,
> and I don't need buss voltage. I'll give it a try.
> Arnold Harding
>
> Russ Chadwick wrote:
> >
> > The latest version, 1-13-0 fixes an earlier problem when using the
> > temperature from the DS2438 chip on the humidity sensor as the primary
> > temperature. So, for the 1.12.5r version, don't select the option to use
> > the humidity sensor temperature as the measured temperature.
> >
> > It also adds the capability to display the calculated dew point
> temperature

> > on the LCD. To get the space to display dew point, Will had to add
> another
> > screen. So, there is one more screen.
> >
> > We've seen an indication that there is something funny with the buss
> voltage
> > measurement in 1-13-0 that was not there in the earlier versions. Still
> > checking that out.
> >
> > Russ
> > Boulder, CO
> > http://www.users.qwest.net/~crb5/
> >
> > ----- Original Message -----
> > From: "Arnold Harding" <kq6di@attbi.com>
> > To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> > Sent: Saturday, December 15, 2001 10:55 PM
> > Subject: [wxsig] Re: Downloading
> >
> > > Amazing! That worked, and it wasn't even painful.
> > >
> > > Since I haven't seen any mention of it, I assume 1-13-0 is a beta
> > > version; so the latest is 1.12.5r I just loaded.
> > >
> > > thanks again, Arnold
> > > kq6di
> > >
> > >
> > > Russ Chadwick wrote:
> > > >
> > > > I have not used Will's new mon08i program and so have no experience
> > with
> > > it.
> > > > Using the mon08.exe program under DOS (not a DOS window), I know that
> > > you
> > > > should be able to put the T238 in monitor mode and enter
> > > >
> > > > mon08 1-12-5.s19 1
> > > >
> > > > where you are using COM1 on the PC and it will work. I did this just
> > > > yesterday and it worked fine. You might try using mon08 under DOS and
> > > see
> > > > if that works on your set-up.
> > > >
> > > > Russ
> > > > Boulder, CO
> > > > http://www.users.qwest.net/~crb5/
> > > >
> > > > ----- Original Message -----
> > > > From: "Arnold Harding" <kq6di@attbi.com>
> > > > To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> > > > Sent: Saturday, December 15, 2001 10:22 PM
> > > > Subject: [wxsig] Re: Downloading
> > > >
> > > > > Yep, sure did. I didn't move any jumpers (per instructions).
> > > > > arnold
> > > > >
> > > > > Russ Chadwick wrote:
> > > > > >
> > > > > > Hi Arnold,
> > > > > >
> > > > > > Did you put the T238 in monitor mode by pressing two of the
> > > buttons
> > > > as
> > > > > you
> > > > > > power up?
> > > > > >
> > > > > > Russ
> > > > > > Boulder, CO
> > > > > > http://www.users.qwest.net/~crb5/
> > > > > >
> > > > > > ----- Original Message -----
> > > > > > From: "Arnold Harding" <kq6di@attbi.com>
> > > > > > To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> > > > > > Sent: Saturday, December 15, 2001 9:58 PM
> > > > > > Subject: [wxsig] Downloading
> > > > > >
> > > > > > I have version 1.1.1r currently. I'm trying to upgrade by
> > > downloading

> > > > > > > 1-12-5.s19 via mon08i.
> > > > > > > mon08i 1-12-5.s19 1
> > > > > > > I get to the point where it says "contacting 6808..." 10
> minutes
> > > > > > > later, it's still there. I am using the lower (2nd) sequence of
> > > > > > > instructions on Will's site. I am connected to the Computer
> port
> > on
> > > > > > > the board, and port 1 of my PC.
> > > > > > >
> > > > > > > What am I doing wrong this time, or can someone point me at
> other
> > > > > > > instructions.
> > > > > > >
> > > > > > > thanks
> > > > > > > Arnold Harding
> > > > > > > kq6di
> > > > > > >
> > > > > > > ---
> > > > > > > You are currently subscribed to wxsig as: crb5@uswest.net
> > > > > > > To unsubscribe send a blank email to
> > leave-wxsig-15067P@lists.tapr.org
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > ---
> > > > > > > You are currently subscribed to wxsig as: kq6di@attbi.com
> > > > > > > To unsubscribe send a blank email to
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> > > > > >
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> > > > > >
> > > > > >
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> > > > > > You are currently subscribed to wxsig as: kq6di@attbi.com
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> > > > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> > >
> > >
> > >
> > > ---
> > > You are currently subscribed to wxsig as: kq6di@attbi.com
> > > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> > ---
> > You are currently subscribed to wxsig as: will@beals5.com
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> > ---
> > You are currently subscribed to wxsig as: kq6di@attbi.com
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

26. [wxsig] Re: wxsig digest: December 14, 2001

From: "William Beals" <will@beals5.com>
Date: Sat, 15 Dec 2001 19:43:46 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52237-2001.12.15-21.09.52--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

David:

Glad things are working again.

I am hoping to start working on a BP sensor soon.

will

-----Original Message-----

From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of David Meadows
Sent: Saturday, December 15, 2001 5:56 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: wxsig digest: December 14, 2001

Will and Others:

Thanks for the quick fix to my time of day problem known as the 470K solution. Will, as far as I am concerned you can put reading the DS1994 on a regular interval down the priority list although I have ordered the DS1994 iButtion from Dallas Semi, will help with the start up of the WX station. Any word on a BP sensor application, just curious or did I miss something?

Keep up the good work!

David Meadows
VE3AFZ
Ottawa

At 01:00 AM 15/12/01 , you wrote:
>TAPR WX Special Interest Group Digest for Friday, December 14, 2001.
>
>1. Re: Time of Day on T238 Display
>
>--
>
>Subject: Re: Time of Day on T238 Display
>From: Bill Wallick <Bill@ka0wuc.org>
>Date: Fri, 14 Dec 2001 08:48:22 -0700
>X-Message-Number: 1
>
>Just to make it easier,,, I will attach the original post on this
>subject.
>
>Message: 5
>From: Dan Awtrey <Dan.Awtrey@dalsemi.com>
>To: "'weather@dalsemi.com'" <weather@dalsemi.com>
>Subject: RE: [weather] DS2401 keep-alive resistors
>Date: Thu, 12 Jul 2001 10:33:21 -0500
>boundary="----_=_NextPart_001_01C10AE7.FB836520"
>Reply-To: weather@dalsemi.com
>
>Brian,
>
>Thanks for bringing up the subject of adding resistors on the
>weather station board again.
>
>The value of the resistors (470K not 470 Ohms) was chosen
>such as to be able to supply the "leakage" or "keep-alive"
>current of the DS2401s. By adding a 470K resistor in
>parallel with each reed switch and across the DS2406, the
>master sees a load of 528K (470K/8 = 58.7K in series with
>470K)or about 9uA. While this is sufficient to maintain the
>DS2401s and prevent a Presence Pulse from being generated, it
>is far below that necessary for the parts to be able to
>communicate with the master.
>
>When the DS2406 is open, except for any DS2401 whose reed
>switch is closed, each DS2401 only has half the supply
>voltage across it. In the case of the DS2401(s) that do have
>their reed switch closed, the 470K between them and the GND
>lead prevents them from generating a logic zero level. So,
>unless the DS2406 is closed to short out the 470K resistor
>across its terminals AND the reed switch for a particular
>DS2401 is closed to short its 470K resistor, the part is
>effectively incognito on the net.
>
>Hopefully, this will give a clearer understanding of the
>concept. Perhaps those members who have added these
>resistors can share the method they used to mount them.
>
>Regards,
>
>Dan Awtrey Staff Engineer
>Dallas Semiconductor Phone: 972-371-6297
>Building C FAX: 972-371-3715

>4401 S. Beltwood Pkwy.   E-mail: dan.awtrey@dalsemi.com
>Dallas, TX 75244-3292
>
>--
>
>Subject: Re: Time of Day on T238 Display
>From: Arnold Harding <kq6di@attbi.com>
>Date: Thu, 13 Dec 2001 17:16:01 -0800
>X-Message-Number: 2
>
>OK, I give. I looked through all of my saved messages (didn't save
>everything) and I didn't see anything about the 470k ohm fix. Can you
>enlighten me? Thanks
>
>Arnold Harding
>KQ6DI
>California
>
>Bill Wallick wrote:
>>
>> David;
>>
>> The other option would be to put the 470k ohm resister fix into your
>> Weather Head. This completely eliminates the wind direction errors,
>and
>> thus the time keeping errors. Worked for me.
>>
>> Bill Wallick
>> KC0FNV
>> Colorado
>>
>
>
>
>
>
>
>---
>
>END OF DIGEST
>
>---
>You are currently subscribed to wxsig as: david.meadows@sympatico.ca
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

27. [wxsig] Re: wxsig digest: December 14, 2001

From: "Clay Bartholow" <w0led@arrl.net>
Date: Sun, 16 Dec 2001 12:52:54
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52328-2001.12.16-13.21.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi!

Two questions -- one directed to Will, the other more general...

Will -- when you say that you are going to start on a BP sensor soon do you
mean both hardware and software or just software? Do you have a DalSemi
prototype sensor, were you thinking about either the David Bray or Rich
Beckwith designs, or are you going to do it from scratch? Any idea of a
time to release?

General -- has anyone used the Hygro iButton Eval Kit (ADI400-EVM) part in
place of the prototype 1-Wire RH sensor (little PC board) yet? This is the
1-Wire Hygro Button RH sensor in iButton form (minus the
to-be-added-to-the-production-model, so they say, light sensor). I have
one but just haven't had the time to hook it up yet.

Happy Holidays!

Clay
W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

28. [wxsig] Re: wxsig digest: December 14, 2001

From: Arnold Harding <kq6di@attbi.com>
Date: Sun, 16 Dec 2001 11:08:51 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52332-2001.12.16-13.37.17--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> General -- has anyone used the Hygro iButton Eval Kit (ADI400-EVM) part in
> place of the prototype 1-Wire RH sensor (little PC board) yet? This is the
> 1-Wire Hygro Button RH sensor in iButton form (minus the
> to-be-added-to-the-production-model, so they say, light sensor). I have
> one but just haven't had the time to hook it up yet.
>
> Happy Holidays!
>
> Clay
> W0LED
>
I have the Hydro iButton, but it seems to have a different part number than
you mentioned. Mine is DS2438. The kit part number ia 90-HS01K-000, DSN:
DSHS01K, whatever all that means. It works. What else did you want to
know?

Arnold
kq6di

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

29. [wxsig] Re: wxsig digest: December 14, 2001

From: "Clay Bartholow" <w0led@arrl.net>
Date: Sun, 16 Dec 2001 13:34:9
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52339-2001.12.16-14.02.44--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Arnold!

Yeah, I think that's the original prototype (I think -- I don't have the
part number handy but the one you stated sounds right). Little PC board
that you connect to the 1-Wire network with a couple of wires, right? The
DS2438 is the ADC on the board and there's a Honeywell
HIH-something-or-other humidity sensor on there also. That's what I'm
currently using for RH. The Hygro iButton is an actual iButton in a
stainless steel can (with small slots for air flow) that is supposed to be
more like the final part that DalSemi/Maxim says they'll be shipping in Q1
2002 for 1-Wire RH sensing (PN DS1910). The near-schematic that came with
it looks like the prototype part (DSHS01K) but I was wondering if anybody
has yet tried it out in place of the DSHS01K and if the T238 firmware
responds to it similarly.

TNX ES 73,

Clay W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

30. [wxsig] Re: humidity

From: Arnold Harding <kq6di@attbi.com>
Date: Sun, 16 Dec 2001 11:50:24 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52340-2001.12.16-14.18.50--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay,
Nope, not the PC board. It's in the can! Not the pc board. Honest. I'll
send you pictures of it (sitting on the T238 even). It's a can with holes

in it. Works fine with the T238. Honest!

Arnold
kq6di

Clay Bartholow wrote:
>
> Hi Arnold!
>
> Yeah, I think that's the original prototype (I think -- I don't have the
> part number handy but the one you stated sounds right). Little PC board
> that you connect to the 1-Wire network with a couple of wires, right? The
> DS2438 is the ADC on the board and there's a Honeywell
> HIH-something-or-other humidity sensor on there also. That's what I'm
> currently using for RH. The Hygro iButton is an actual iButton in a
> stainless steel can (with small slots for air flow) that is supposed to be
> more like the final part that DalSemi/Maxim says they'll be shipping in Q1
> 2002 for 1-Wire RH sensing (PN DS1910). The near-schematic that came with
> it looks like the prototype part (DSHS01K) but I was wondering if anybody
> has yet tried it out in place of the DSHS01K and if the T238 firmware
> responds to it similarly.
>
> TNX ES 73,
>
> Clay W0LED
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

31. [wxsig] Re: humidity

From: "Clay Bartholow" <clay.bartholow@neicoltech.org>
Date: Sun, 16 Dec 2001 14:06:59 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52341-2001.12.16-14.35.38--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I believe you Arnold...

They must have started shipping it out under a different part number, I had
to sign a waiver and the whole nine yards to get the one I got but then it
was listed as an engineering evaluation kit. That's great though -- that's
what I wanted to know -- it works with the existing firmware. Thanks for
the reply...

Thanks Arnold es 73,

Clay

----- Original Message -----
From: "Arnold Harding" <kq6di@attbi.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Sunday, December 16, 2001 1:50 PM
Subject: [wxsig] Re: humidity

> Clay,
> Nope, not the PC board. It's in the can! Not the pc board. Honest.
I'll
> send you pictures of it (sitting on the T238 even). It's a can with holes
> in it. Works fine with the T238. Honest!
>
> Arnold
> kq6di
>
> Clay Bartholow wrote:
> >
> > Hi Arnold!
> >
> > Yeah, I think that's the original prototype (I think -- I don't have the
> > part number handy but the one you stated sounds right). Little PC board
> > that you connect to the 1-Wire network with a couple of wires, right?
The
> > DS2438 is the ADC on the board and there's a Honeywell
> > HIH-something-or-other humidity sensor on there also. That's what I'm

> > currently using for RH. The Hygro iButton is an actual iButton in a
> > stainless steel can (with small slots for air flow) that is supposed to
be
> > more like the final part that DalSemi/Maxim says they'll be shipping in
Q1
> > 2002 for 1-Wire RH sensing (PN DS1910). The near-schematic that came
with
> > it looks like the prototype part (DSHS01K) but I was wondering if
anybody
> > has yet tried it out in place of the DSHS01K and if the T238 firmware
> > responds to it similarly.
> >
> > TNX ES 73,
> >
> > Clay W0LED
> >
> > ---
> > You are currently subscribed to wxsig as: kq6di@attbi.com
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
> ---
> You are currently subscribed to wxsig as: w0led@arrl.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

32. [wxsig] Re: wxsig digest: December 14, 2001

From: "William Beals" <will@beals5.com>
Date: Sun, 16 Dec 2001 15:41:24 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52355-2001.12.16-17.07.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay:

I am hoping for a commercial BP sensor to be available soon. Lots of
rumors, but nothing concrete yet. The software to support it will come
pretty quickly once the sensor is available.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Clay Bartholow
Sent: Sunday, December 16, 2001 12:53 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: wxsig digest: December 14, 2001

Hi!

Two questions -- one directed to Will, the other more general...

Will -- when you say that you are going to start on a BP sensor soon do you
mean both hardware and software or just software? Do you have a DalSemi
prototype sensor, were you thinking about either the David Bray or Rich
Beckwith designs, or are you going to do it from scratch? Any idea of a
time to release?

General -- has anyone used the Hygro iButton Eval Kit (ADI400-EVM) part in
place of the prototype 1-Wire RH sensor (little PC board) yet? This is the
1-Wire Hygro Button RH sensor in iButton form (minus the
to-be-added-to-the-production-model, so they say, light sensor). I have
one but just haven't had the time to hook it up yet.

Happy Holidays!

Clay
W0LED

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

33. [wxsig] TNC setup

From: Arnold Harding <kq6di@attbi.com>
Date: Wed, 19 Dec 2001 17:16:51 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52797-2001.12.19-19.45.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This is a Ham radio question, but it's with the weather station...

I want to interface the T-238 to a Kantronics KPC-3 (not the 3+). The KPC-3 is a APRS digipeter on Mt. Hamilton at 4300 feet in the San Francisco Bay Area (WB6GUM-3). I wasn't originally sure, but I WILL be able to include wind information :-)

As this is at the digipeter, and this site can be heard easily for 100 miles, I don't want to send WX data every 5 minutes. Every 15 minutes will be more than adequate for anything we need. (The APRS frequency is also very busy, and we don't need to add more traffic.) Obviously I need to use the LT buffers. Has anyone had any experience with this, and can you share some insight with me. If necessary, I could change to the 3+, but I'd rather not if it can be avoided.

I know that only sending data every 15 minutes that I won't get everything. But how much does the weather change in 15 minutes, and do I care if the data isn't perfect 50 miles from home? At the moment, nothing is there, so we'll be getting a lot more data from that spot.

Thanks everyone, Arnold Harding
kq6di

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

34. [wxsig] Re: TNC setup

From: "Kurt O. Jauss" <kf6hjo@earthlink.net>
Date: Wed, 19 Dec 2001 22:25:17 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52848-2001.12.20-00.53.56--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Arnold;

Great job on the Digi. As long as the KPC-3 is ver 6.0 or later It will run as a stand-alone Wx Digi. I believe the T-238 can output a PEET Bros. data string. I only use PEET's on the stations I have installed.. The setting can be placed into the TNC and the TNC put in to GPS mode.

BLT 1 EVERY 00:06:12
BLT 2 EVERY 00:15:05

LTP 1 GPSHW
LTP 2 GPSHW VIA WIDE

GPSH 1 !! (or)
GPSH 1 $ULTW
GPSH 2 (same as 1)

ABAUD 2400 (or the data rate for the T-238)

Ok, now to explain the settings;
The BLT rate would be the weather data string. It is sent without a digi string so only stations that hear the digi direct will will get a wx data packet every 6 min and 12 seconds. (I always offset a couple seconds) and stations a digi away will get a wx packet every 15 min and 5 seconds. Also the GPSHW is a round blue Wx icon

The GPSH is for the GPS header. PEET's use !! for complete record mode and $ULTW as a 5 min snapshot of the weather.

Hope this helps. Also see Byron's web site. There are more KPC-3 / Wx links.

http://ns.theworks.com/~wa6ylb/

Arnold Harding wrote:

> This is a Ham radio question, but it's with the weather station...
>
> I want to interface the T-238 to a Kantronics KPC-3 (not the 3+). The
> KPC-3 is a APRS digipeter on Mt. Hamilton at 4300 feet in the San Francisco
> Bay Area (WB6GUM-3). I wasn't originally sure, but I WILL be able to
> include wind information :-)
>
> As this is at the digipeter, and this site can be heard easily for 100
> miles, I don't want to send WX data every 5 minutes. Every 15 minutes will
> be more than adequate for anything we need. (The APRS frequency is also
> very busy, and we don't need to add more traffic.) Obviously I need to use
> the LT buffers. Has anyone had any experience with this, and can you share
> some insight with me. If necessary, I could change to the 3+, but I'd
> rather not if it can be avoided.
>
> I know that only sending data every 15 minutes that I won't get
> everything. But how much does the weather change in 15 minutes, and do I
> care if the data isn't perfect 50 miles from home? At the moment, nothing
> is there, so we'll be getting a lot more data from that spot.
>
> Thanks everyone, Arnold Harding
> kq6di
>
> ---
>

--
  Kurt O. Jauss
     kf6hjo@earthlink.net
         3630.45N 11940.50W   144.39Mhz
       Selma Ca.   {APRS Weather & GPS Tracker}
    SKYWARN member Hanford Ca. NWS
              DOSAPRS/WAPRS/APRS+SA
 For Selma weather   http://www.findu.com/cgi-bin/wxpage.cgi?KF6HJO
Want to find my truck? http://www.findu.com/cgi-bin/find.cgi?kf6hjo-7

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

35. [wxsig] Re: TNC setup

From: Arnold Harding <kq6di@attbi.com>
Date: Wed, 19 Dec 2001 22:46:31 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-52849-2001.12.20-01.15.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks, this is at least encouraging.

For those not of amateur persuasion, a digipeter is a "digital repeater".
If it is placed on the top of a mountain (like mine), anyone who can "see"
the mountain can send a message to it, then anyone else who can also see
the mountain can get the message. In other words, you may not be able to
contact each other directly, but you can with the help of the digipeter on
the mountain. (that's why mountains tend to be antenna farms (lots of
antennas planted)). The San Francisco Bay Area is at an altitude of zero,
and the mountain is at 4300 feet. It can see a long way...

My KPC-3 has version 8.2 software. It is not really "stand-alone" as the
digipeter is reasonably busy without T-238 connected. This does help, and
I'll give some things a try.

Arnold Harding

"Kurt O. Jauss" wrote:
>
>   Hi Arnold;
>
> Great job on the Digi. As long as the KPC-3 is ver 6.0 or later It will run as
> a stand-alone Wx Digi. I believe the T-238 can output a PEET Bros. data string.
> I only use PEET's on the stations I have installed.. The setting can be placed
> into the TNC and the TNC put in to GPS mode.
>
> BLT 1 EVERY 00:06:12
> BLT 2 EVERY 00:15:05

>
> LTP 1 GPSHW
> LTP 2 GPSHW VIA WIDE
>
> GPSH 1 !!   (or)
> GPSH 1 $ULTW
> GPSH 2   (same as 1)
>
> ABAUD 2400 (or the data rate for the T-238)
>
>   Ok, now to explain the settings;
> The BLT rate would be the weather data string. It is sent without a digi string
> so only stations that hear the digi direct will will get a wx data packet every
> 6 min and 12 seconds. (I always offset a couple seconds) and stations a digi
> away will get a wx packet every 15 min and 5 seconds. Also the GPSHW is a round
> blue Wx icon
>
> The GPSH is for the GPS header. PEET's use !! for complete record mode and
> $ULTW as a 5 min snapshot of the weather.
>
> Hope this helps. Also see Byron's web site. There are more KPC-3 / Wx links.
>
> http://ns.theworks.com/~wa6ylb/
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

36. [wxsig] T238 Date off by a month

From: "William Beals" <will@beals5.com>
Date: Sat, 22 Dec 2001 16:21:32 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: <Bill@ka0wuc.org>
Message-ID: <LYR15067-53148-2001.12.22-17.47.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Bill emailed me this afternoon noting that the date on his T238 was off by
exactly a month! Mine was too, so I'd be willing to bet that everyones is.
For those of you with ibutton timekeepers, a simple reset will fix the
issue, for those of you without timekeepers, you will need to go through the
set time/date menu to fix this.

I must confess that I don't look at the date much, so I don't know what
triggered this or when.   Whatever the issue, I will have it repaired in
the next release. Since this has not been an issue on previous year-ends,
there must be something special about 2001.

will

==
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

37. [wxsig] dimensions

From: Arnold Harding <kq6di@attbi.com>
Date: Sat, 22 Dec 2001 18:25:18 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-53162-2001.12.22-20.54.09--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does anyone have dimensions or a drilling layout for the t238? A friend an
hour and a half away is ready to make a case or mount so this can go into a
rack enclosure (the 19" style rack). What I think he needs is the mounting
hole pattern for the PCB. I can find the dimensions for the LCD, and

switches aren't difficult either.

thanks, Arnold Harding
kq6di

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

38. [wxsig] RE: dimensions

From: "William Beals" <will@beals5.com>
Date: Sat, 22 Dec 2001 20:36:40 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-53173-2001.12.22-22.03.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Arnold:

I have a copies of the original board design, but alas no dimensioned
control drawing. I don't have any fancy calipers either. Best I can guess
with a ruler are 5.3 inches wide by 3.1 inches tall. I seem to remember
everything was on a .1" grid. That is the best I can offer unless anyone
has better measurement equipment.

(I always enjoy referring to digital calipers as digital wrenches. It's
amazing how predictably I can get owners of such devices to cringe when I
say that!)

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
Sent: Saturday, December 22, 2001 7:25 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] dimensions

Does anyone have dimensions or a drilling layout for the t238? A friend an
hour and a half away is ready to make a case or mount so this can go into a
rack enclosure (the 19" style rack). What I think he needs is the mounting
hole pattern for the PCB. I can find the dimensions for the LCD, and
switches aren't difficult either.

thanks, Arnold Harding
kq6di

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

39. [wxsig] RE: dimensions

From: John Koster <w9ddd@tapr.org>
Date: Sun, 23 Dec 2001 00:54:47 -0600 (CST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-53191-2001.12.23-01.23.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I can pull them off the CAD files in the morning if I remember until then.
If you don't hear from me by tomorow afternoon, send a reminder.

John Koster, W9DDD
<w9ddd@tapr.org>

On Sat, 22 Dec 2001, William Beals wrote:

> Arnold:
>
> I have a copies of the original board design, but alas no dimensioned
> control drawing. I don't have any fancy calipers either. Best I can guess
> with a ruler are 5.3 inches wide by 3.1 inches tall. I seem to remember
> everything was on a .1" grid. That is the best I can offer unless anyone
> has better measurement equipment.

>
> (I always enjoy referring to digital calipers as digital wrenches. It's
> amazing how predictably I can get owners of such devices to cringe when I
> say that!)
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
> Sent: Saturday, December 22, 2001 7:25 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] dimensions
>
>
> Does anyone have dimensions or a drilling layout for the t238? A friend an
> hour and a half away is ready to make a case or mount so this can go into a
> rack enclosure (the 19" style rack). What I think he needs is the mounting
> hole pattern for the PCB. I can find the dimensions for the LCD, and
> switches aren't difficult either.
>
> thanks, Arnold Harding
> kq6di
>
> ---
> You are currently subscribed to wxsig as: will@beals5.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
> ---
> You are currently subscribed to wxsig as: w9ddd@tapr.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

40. [wxsig] RE: Dimensions

From: Bill Wallick <Bill@ka0wuc.org>
Date: Sun, 23 Dec 2001 08:46:41 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-53217-2001.12.23-10.22.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Digital Wrenches,,, eeck.....

Anyway,, my board is 5.75 " by 3.50".
The mounting holes (one on each corner) are 0.125" in diameter and all
identically spaced from the board edges. The holes are centered at
0.1875" from either edge, at the corner.

Hope that helps..

Bill Wallick, KC0FNV, Woodland Park, CO

Subject: dimensions
From: Arnold Harding <kq6di@attbi.com>
Date: Sat, 22 Dec 2001 18:25:18 -0800
X-Message-Number: 2

Does anyone have dimensions or a drilling layout for the t238? A friend
an
hour and a half away is ready to make a case or mount so this can go
into a
rack enclosure (the 19" style rack). What I think he needs is the
mounting
hole pattern for the PCB. I can find the dimensions for the LCD, and
switches aren't difficult either.

thanks, Arnold Harding
kq6di

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

41. [wxsig] RE: dimensions

From: John Koster <w9ddd@tapr.org>
Date: Sun, 23 Dec 2001 11:36:06 -0600 (CST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-53222-2001.12.23-12.04.54--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The X,Y coordinates from the original drawings are as follows"

board corners

1.200, 0.800
4.700, 0.800
1.200, 6.500
4.700, 6.500

Mouting holes. 0.140
1.400, 1.000
4.500, 1.000
1.400, 6.300
4.500, 6.300

Converting the above information to a useable format is left as an
exercise for the reader.

When the board is cut out of the panel, the overall size will be slightly
smaller due to the width of the cutting tool. The above dimensions are
used as the centerline path of the cutting tool. I'd guess the cutting
tool to be between 25 and 40 mils in diameter. YMMV.

John Koster, W9DDD
<w9ddd@tapr.org>

On Sat, 22 Dec 2001, William Beals wrote:

> Arnold:
>
> I have a copies of the original board design, but alas no dimensioned
> control drawing. I don't have any fancy calipers either. Best I can guess
> with a ruler are 5.3 inches wide by 3.1 inches tall. I seem to remember
> everything was on a .1" grid. That is the best I can offer unless anyone
> has better measurement equipment.
>
> (I always enjoy referring to digital calipers as digital wrenches. It's
> amazing how predictably I can get owners of such devices to cringe when I
> say that!)
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
> Sent: Saturday, December 22, 2001 7:25 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] dimensions
>
>
> Does anyone have dimensions or a drilling layout for the t238? A friend an
> hour and a half away is ready to make a case or mount so this can go into a
> rack enclosure (the 19" style rack). What I think he needs is the mounting
> hole pattern for the PCB. I can find the dimensions for the LCD, and
> switches aren't difficult either.
>
> thanks, Arnold Harding
> kq6di
>
> ---
> You are currently subscribed to wxsig as: will@beals5.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
> ---

> You are currently subscribed to wxsig as: w9ddd@tapr.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

42. [wxsig] RE: dimensions

From: Arnold Harding <kq6di@attbi.com>
Date: Sun, 23 Dec 2001 09:43:22 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-53223-2001.12.23-12.12.20--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

John,
This helps tremendously.

73 Arnold, KQ6DI

John Koster wrote:
>
> The X,Y coordinates from the original drawings are as follows"
>
> board corners
>
> 1.200, 0.800
> 4.700, 0.800
> 1.200, 6.500
> 4.700, 6.500
>
> Mouting holes. 0.140
> 1.400, 1.000
> 4.500, 1.000
> 1.400, 6.300
> 4.500, 6.300
>
> Converting the above information to a useable format is left as an
> exercise for the reader.
>
> When the board is cut out of the panel, the overall size will be slightly
> smaller due to the width of the cutting tool. The above dimensions are
> used as the centerline path of the cutting tool. I'd guess the cutting
> tool to be between 25 and 40 mils in diameter. YMMV.
>
> John Koster, W9DDD
> <w9ddd@tapr.org>
>
> On Sat, 22 Dec 2001, William Beals wrote:
>
> > Arnold:
> >
> > I have a copies of the original board design, but alas no dimensioned
> > control drawing. I don't have any fancy calipers either. Best I can guess
> > with a ruler are 5.3 inches wide by 3.1 inches tall. I seem to remember
> > everything was on a .1" grid. That is the best I can offer unless anyone
> > has better measurement equipment.
> >
> > (I always enjoy referring to digital calipers as digital wrenches. It's
> > amazing how predictably I can get owners of such devices to cringe when I
> > say that!)
> >
> > will
> >
> > -----Original Message-----
> > From: bounce-wxsig-21132@lists.tapr.org
> > [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
> > Sent: Saturday, December 22, 2001 7:25 PM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] dimensions
> >
> >
> > Does anyone have dimensions or a drilling layout for the t238? A friend an
> > hour and a half away is ready to make a case or mount so this can go into a
> > rack enclosure (the 19" style rack). What I think he needs is the mounting
> > hole pattern for the PCB. I can find the dimensions for the LCD, and
> > switches aren't difficult either.

> >
> > thanks, Arnold Harding
> > kq6di
> >
> > ---
> > You are currently subscribed to wxsig as: will@beals5.com
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> >
> > ---
> > You are currently subscribed to wxsig as: w9ddd@tapr.org
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> >
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

43. [wxsig] RE: dimensions

From: John Koster <w9ddd@tapr.org>
Date: Sun, 23 Dec 2001 14:27:07 -0600 (CST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-53241-2001.12.23-14.55.54--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Probably a tidbit of information that ought to be part of all our manuals?

John Koster, W9DDD
<w9ddd@tapr.org>

On Sun, 23 Dec 2001, Arnold Harding wrote:

> John,
> This helps tremendously.
>
> 73 Arnold, KQ6DI
>
> John Koster wrote:
> >
> > The X,Y coordinates from the original drawings are as follows"
> >
> > board corners
> >
> > 1.200, 0.800
> > 4.700, 0.800
> > 1.200, 6.500
> > 4.700, 6.500
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> > Mouting holes. 0.140
> > 1.400, 1.000
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> > exercise for the reader.
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> > smaller due to the width of the cutting tool. The above dimensions are
> > used as the centerline path of the cutting tool. I'd guess the cutting
> > tool to be between 25 and 40 mils in diameter. YMMV.
> >
> > John Koster, W9DDD
> > <w9ddd@tapr.org>
> >
> > On Sat, 22 Dec 2001, William Beals wrote:
> >
> > > Arnold:
> > >
> > > I have a copies of the original board design, but alas no dimensioned
> > > control drawing. I don't have any fancy calipers either. Best I can guess
> > > with a ruler are 5.3 inches wide by 3.1 inches tall. I seem to remember
> > > everything was on a .1" grid. That is the best I can offer unless anyone
> > > has better measurement equipment.

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> > > amazing how predictably I can get owners of such devices to cringe when I
> > > say that!)
> > >
> > > will
> > >
> > > -----Original Message-----
> > > From: bounce-wxsig-21132@lists.tapr.org
> > > [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
> > > Sent: Saturday, December 22, 2001 7:25 PM
> > > To: TAPR WX Special Interest Group
> > > Subject: [wxsig] dimensions
> > >
> > >
> > > Does anyone have dimensions or a drilling layout for the t238? A friend an
> > > hour and a half away is ready to make a case or mount so this can go into a
> > > rack enclosure (the 19" style rack). What I think he needs is the mounting
> > > hole pattern for the PCB. I can find the dimensions for the LCD, and
> > > switches aren't difficult either.
> > >
> > > thanks, Arnold Harding
> > > kq6di
> > >
> > > ---
> > > You are currently subscribed to wxsig as: will@beals5.com
> > > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
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> > >
> > > ---
> > > You are currently subscribed to wxsig as: w9ddd@tapr.org
> > > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
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> > You are currently subscribed to wxsig as: kq6di@attbi.com
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> ---
> You are currently subscribed to wxsig as: w9ddd@tapr.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

44. [wxsig] RE: dimensions

From: John Koster <w9ddd@tapr.org>
Date: Sun, 23 Dec 2001 14:32:09 -0600 (CST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-53242-2001.12.23-15.00.56--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Oh, a caveat. Those were for the REV 3 board. I don't think they
changed, but just in case ..... 'measure twice, cut once'

John Koster, W9DDD
<w9ddd@tapr.org>

On Sun, 23 Dec 2001, Arnold Harding wrote:

> John,
> This helps tremendously.
>
> 73 Arnold, KQ6DI
>
> John Koster wrote:
> >
> > The X,Y coordinates from the original drawings are as follows"
> >
> > board corners
> >
> > 1.200, 0.800
> > 4.700, 0.800

> > 1.200, 6.500
> > 4.700, 6.500
> >
> > Mouting holes. 0.140
> > 1.400, 1.000
> > 4.500, 1.000
> > 1.400, 6.300
> > 4.500, 6.300
> >
> > Converting the above information to a useable format is left as an
> > exercise for the reader.
> >
> > When the board is cut out of the panel, the overall size will be slightly
> > smaller due to the width of the cutting tool. The above dimensions are
> > used as the centerline path of the cutting tool. I'd guess the cutting
> > tool to be between 25 and 40 mils in diameter. YMMV.
> >
> > John Koster, W9DDD
> > <w9ddd@tapr.org>
> >
> > On Sat, 22 Dec 2001, William Beals wrote:
> >
> > > Arnold:
> > >
> > > I have a copies of the original board design, but alas no dimensioned
> > > control drawing. I don't have any fancy calipers either. Best I can guess
> > > with a ruler are 5.3 inches wide by 3.1 inches tall. I seem to remember
> > > everything was on a .1" grid. That is the best I can offer unless anyone
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> > > say that!)
> > >
> > > will
> > >
> > > -----Original Message-----
> > > From: bounce-wxsig-21132@lists.tapr.org
> > > [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
> > > Sent: Saturday, December 22, 2001 7:25 PM
> > > To: TAPR WX Special Interest Group
> > > Subject: [wxsig] dimensions
> > >
> > >
> > > Does anyone have dimensions or a drilling layout for the t238? A friend an
> > > hour and a half away is ready to make a case or mount so this can go into a
> > > rack enclosure (the 19" style rack). What I think he needs is the mounting
> > > hole pattern for the PCB. I can find the dimensions for the LCD, and
> > > switches aren't difficult either.
> > >
> > > thanks, Arnold Harding
> > > kq6di
> > >
> > > ---
> > > You are currently subscribed to wxsig as: will@beals5.com
> > > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> > >
> > >
> > > ---
> > > You are currently subscribed to wxsig as: w9ddd@tapr.org
> > > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> > >
> > >
> > >
> > > ---
> > You are currently subscribed to wxsig as: kq6di@attbi.com
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
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> You are currently subscribed to wxsig as: w9ddd@tapr.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

45. [wxsig] RE: dimensions

From: Arnold Harding <kq6di@attbi.com>
Date: Sun, 23 Dec 2001 12:43:41 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-53243-2001.12.23-15.12.38--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm having someone who actually knows how to use those calibrated spanner wrench thingies and can measure once and cut a straight line do the packaging. He lives on top of the mountain where this is going to go. He'd like to look for the right sized box, and have a general idea of layout (more stuff going inside). So this will help him at least find the right box.

In the manual, there is a layout of the board. Looks like it's the solder mask and silk screen layout, but it's dimensionless. We can't all measure, but for those who can the dimensions are wonderful.

Hopefully, this will go on the mountain late January. For those interested, even if you aren't into ham radio, I'll publish the URL to the data for all to see (once it's there).

Thanks again, Arnold Harding

John Koster wrote:
>
> Probably a tidbit of information that ought to be part of all our manuals?
>
> John Koster, W9DDD
> <w9ddd@tapr.org>
>
> On Sun, 23 Dec 2001, Arnold Harding wrote:
>
> > John,
> > This helps tremendously.
> >
> > 73 Arnold, KQ6DI
> >
> > John Koster wrote:
> > >
> > > The X,Y coordinates from the original drawings are as follows"
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> > > Mouting holes. 0.140
> > > 1.400, 1.000
> > > 4.500, 1.000
> > > 1.400, 6.300
> > > 4.500, 6.300
> > >
> > > Converting the above information to a useable format is left as an
> > > exercise for the reader.
> > >
> > > When the board is cut out of the panel, the overall size will be slightly
> > > smaller due to the width of the cutting tool. The above dimensions are
> > > used as the centerline path of the cutting tool. I'd guess the cutting
> > > tool to be between 25 and 40 mils in diameter. YMMV.
> > >
> > > John Koster, W9DDD
> > > <w9ddd@tapr.org>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

46. [wxsig] Battery voltage

From: Arnold Harding <kq6di@attbi.com>
Date: Thu, 27 Dec 2001 17:23:27 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-53730-2001.12.27-19.52.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does battery voltage work in version 1.13.0R? The display only shows
voltages of 14.5 or 7.5 volts. The circuit is built per the drawing on the
web site (20k, 1K pot, 10K).

Hints welcomed.

Arnold Harding

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

47. [wxsig] RE: Battery voltage

From: "William Beals" <will@beals5.com>
Date: Fri, 28 Dec 2001 08:07:14 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-53835-2001.12.28-09.36.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Arnold:

Something went awry with 1.13.0. I'm looking into it.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
Sent: Thursday, December 27, 2001 6:23 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Battery voltage

Does battery voltage work in version 1.13.0R? The display only shows
voltages of 14.5 or 7.5 volts. The circuit is built per the drawing on the
web site (20k, 1K pot, 10K).

Hints welcomed.

Arnold Harding

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

48. [wxsig] RE: Battery voltage

From: Arnold Harding <kq6di@attbi.com>
Date: Fri, 28 Dec 2001 07:24:00 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-53836-2001.12.28-09.53.18--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

OK, thanks. I can wait.

Arnold Harding

William Beals wrote:
>
> Arnold:
>
> Something went awry with 1.13.0. I'm looking into it.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
> Sent: Thursday, December 27, 2001 6:23 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Battery voltage
>
> Does battery voltage work in version 1.13.0R? The display only shows
> voltages of 14.5 or 7.5 volts. The circuit is built per the drawing on the
> web site (20k, 1K pot, 10K).
>

> Hints welcomed.
>
> Arnold Harding
>
> ---
> You are currently subscribed to wxsig as: will@beals5.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

49. [wxsig] Lightning detection (fwd)

From: TAPR Office <k9qym@tapr.org>
Date: Sun, 30 Dec 2001 16:01:21 -0600 (CST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-54227-2001.12.30-16.30.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Laura Trujillo Koster, TAPR Office Manager

---------- Forwarded message ----------
Date: Sun, 30 Dec 2001 13:57:52 -0700
From: Albert Alvarez Ortiz <trekbi@dzn.com>
To: tapr@tapr.org
Subject: Lightning detection

Greetings,

   Now that APRS has made a big hit with NWS. Can you put together a kit
that would detect lightning? I have seen several products in cyber space.
The two that I would like to purchase are beyond my wallet.

   I hope that building a lightning detector could be a project in works by
Tapr group in the future.

   73s de Albert, KB5GZZ

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

50. [wxsig] RE: Lightning detection (fwd)

From: "Steven Bible" <n7hpr@tapr.org>
Date: Mon, 31 Dec 2001 08:07:06 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-54325-2001.12.31-09.33.15--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Albert and Group,

Some many months ago (over a year or two?) there was an article in Circuit
Cellar on lightning detection. I'll have to search the issues. Wish
Circuit Cellar had a search function on their web site. They have table of
contents that can be viewed. This might be a good place to start.

- Steve, N7HPR
  (n7hpr@tapr.org)

> -----Original Message-----
> From: bounce-wxsig-15059@lists.tapr.org
> [mailto:bounce-wxsig-15059@lists.tapr.org]On Behalf Of TAPR Office
> Sent: Sunday, December 30, 2001 3:01 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Lightning detection (fwd)
>
>
>
>
> Laura Trujillo Koster, TAPR Office Manager
>

> ---------- Forwarded message ----------
> Date: Sun, 30 Dec 2001 13:57:52 -0700
> From: Albert Alvarez Ortiz <trekbi@dzn.com>
> To: tapr@tapr.org
> Subject: Lightning detection
>
> Greetings,
>
>   Now that APRS has made a big hit with NWS. Can you put together a kit
> that would detect lightning? I have seen several products in cyber space.
> The two that I would like to purchase are beyond my wallet.
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>   I hope that building a lightning detector could be a project
> in works by
> Tapr group in the future.
>
>   73s de Albert, KB5GZZ
>
>
>
> ---
> You are currently subscribed to wxsig as: n7hpr@tapr.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

51. [wxsig] RE: Lightning detection (fwd)

From: "Steven Bible" <n7hpr@tapr.org>
Date: Mon, 31 Dec 2001 08:09:35 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-54326-2001.12.31-09.35.41--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Can't believe I found it so quickly. Forgot that you can do a FIND on the
web page table of contents. Here's the article:

ISSUE 90
January 1998
10th Anniversary Special

Ground Zero, A Real-World Look at Lightning, by Steve Ciarcia & Jeff
Bachiochi, 11.

- Steve, N7HPR
  (n7hpr@tapr.org)

> -----Original Message-----
> From: bounce-wxsig-15059@lists.tapr.org
> [mailto:bounce-wxsig-15059@lists.tapr.org]On Behalf Of Steven Bible
> Sent: Monday, December 31, 2001 8:07 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: Lightning detection (fwd)
>
>
> Albert and Group,
>
> Some many months ago (over a year or two?) there was an article in Circuit
> Cellar on lightning detection. I'll have to search the issues. Wish
> Circuit Cellar had a search function on their web site. They
> have table of
> contents that can be viewed. This might be a good place to start.
>
> - Steve, N7HPR
>   (n7hpr@tapr.org)
>
>
>
> > -----Original Message-----
> > From: bounce-wxsig-15059@lists.tapr.org
> > [mailto:bounce-wxsig-15059@lists.tapr.org]On Behalf Of TAPR Office
> > Sent: Sunday, December 30, 2001 3:01 PM

> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] Lightning detection (fwd)
> >
> >
> >
> >
> > Laura Trujillo Koster, TAPR Office Manager
> >
> > ---------- Forwarded message ----------
> > Date: Sun, 30 Dec 2001 13:57:52 -0700
> > From: Albert Alvarez Ortiz <trekbi@dzn.com>
> > To: tapr@tapr.org
> > Subject: Lightning detection
> >
> > Greetings,
> >
> >   Now that APRS has made a big hit with NWS. Can you put
> together a kit
> > that would detect lightning? I have seen several products in
> cyber space.
> > The two that I would like to purchase are beyond my wallet.
> >
> >   I hope that building a lightning detector could be a project
> > in works by
> > Tapr group in the future.
> >
> >   73s de Albert, KB5GZZ
> >
> >
> >
> > ---
> > You are currently subscribed to wxsig as: n7hpr@tapr.org
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
>
>
> ---
> You are currently subscribed to wxsig as: n7hpr@tapr.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

52. [wxsig] RE: Lightning detection (fwd)

From: "Mark A. Foley" <na4v@home.com>
Date: Mon, 31 Dec 2001 11:50:04 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-54335-2001.12.31-11.19.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Many of you may have already seen this site...in case you
haven't--http://www.boltek.com/
Mark, NA4V
> -----Original Message-----
> From: bounce-wxsig-23933@lists.tapr.org
> [mailto:bounce-wxsig-23933@lists.tapr.org] On Behalf Of Steven Bible
> Sent: Monday, December 31, 2001 10:10 AM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] RE: Lightning detection (fwd)
>
>
> Can't believe I found it so quickly. Forgot that you can do
> a FIND on the web page table of contents. Here's the article:
>
> ISSUE 90
> January 1998
> 10th Anniversary Special
>
> Ground Zero, A Real-World Look at Lightning, by Steve Ciarcia
> & Jeff Bachiochi, 11.
>
>
>
> - Steve, N7HPR
>   (n7hpr@tapr.org)
>

>
>
> > -----Original Message-----
> > From: bounce-wxsig-15059@lists.tapr.org
> > [mailto:bounce-wxsig-15059@lists.tapr.org]On Behalf Of Steven Bible
> > Sent: Monday, December 31, 2001 8:07 AM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] RE: Lightning detection (fwd)
> >
> >
> > Albert and Group,
> >
> > Some many months ago (over a year or two?) there was an article in
> > Circuit Cellar on lightning detection. I'll have to search the
> > issues. Wish Circuit Cellar had a search function on their
> web site.
> > They have table of contents that can be viewed. This might
> be a good
> > place to start.
> >
> > - Steve, N7HPR
> >   (n7hpr@tapr.org)
> >
> >
> >
> > > -----Original Message-----
> > > From: bounce-wxsig-15059@lists.tapr.org
> > > [mailto:bounce-wxsig-15059@lists.tapr.org]On Behalf Of TAPR Office
> > > Sent: Sunday, December 30, 2001 3:01 PM
> > > To: TAPR WX Special Interest Group
> > > Subject: [wxsig] Lightning detection (fwd)
> > >
> > >
> > >
> > >
> > > Laura Trujillo Koster, TAPR Office Manager
> > >
> > > ---------- Forwarded message ----------
> > > Date: Sun, 30 Dec 2001 13:57:52 -0700
> > > From: Albert Alvarez Ortiz <trekbi@dzn.com>
> > > To: tapr@tapr.org
> > > Subject: Lightning detection
> > >
> > > Greetings,
> > >
> > >   Now that APRS has made a big hit with NWS. Can you put
> > together a kit
> > > that would detect lightning? I have seen several products in
> > cyber space.
> > > The two that I would like to purchase are beyond my wallet.
> > >
> > >   I hope that building a lightning detector could be a
> project in
> > works by Tapr group in the future.
> > >
> > >   73s de Albert, KB5GZZ
> > >
> > >
> > >
> > > ---
> > > You are currently subscribed to wxsig as: n7hpr@tapr.org
> > > To unsubscribe send a blank email to
> > > leave-wxsig-15067P@lists.tapr.org
> > >
> >
> >
> > ---
> > You are currently subscribed to wxsig as: n7hpr@tapr.org
> > To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
> >
>
>
> ---
> You are currently subscribed to wxsig as: na4v@home.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

53. [wxsig] Lightning detectors

From: Alan Heaberlin <w6amh@yahoo.com>
Date: Mon, 31 Dec 2001 15:55:53 -0800 (PST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-54395-2001.12.31-18.25.02--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

For information, the Dallas 1-Wire SIG has had a ton
of traffic about inexpensive lightning detectors.
Brian Hamilton's Weather Display now supports various
lightning detectors and there are about 3 or 4 1-Wire
designs being built and tested (I'm sure Tstm season
will bring more info).
Alan Heaberlin W6AMH

--- TAPR Office <k9qym@tapr.org> wrote:
>
>
> Laura Trujillo Koster, TAPR Office Manager
>
> ---------- Forwarded message ----------
> Date: Sun, 30 Dec 2001 13:57:52 -0700
> From: Albert Alvarez Ortiz <trekbi@dzn.com>
> To: tapr@tapr.org
> Subject: Lightning detection
>
> Greetings,
>
>   Now that APRS has made a big hit with NWS. Can
> you put together a kit
> that would detect lightning? I have seen several
> products in cyber space.
> The two that I would like to purchase are beyond my
> wallet.
>
>   I hope that building a lightning detector could
> be a project in works by
> Tapr group in the future.
>
>   73s de Albert, KB5GZZ
>
>
>
> ---
> You are currently subscribed to wxsig as:
> w6amh@yahoo.com
> To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
>

_____
Do You Yahoo!?
Send your FREE holiday greetings online!
http://greetings.yahoo.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

January 2002

Original source file: wxsig.0201
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0201

1. [wxsig] Bus Voltage issue

From: "William Beals" <will@beals5.com>
Date: Tue, 1 Jan 2002 09:43:19 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-54491-2002.01.01-11.09.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Arnold (and anyone else with bus voltage issues):

I may have found the issue where the bus voltage is not being reported
correctly. To confirm, I need to know if the folk having this problem have
rain gauges installed or not. Thanks in advance.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Re: Bus Voltage issue

From: Arnold Harding <kq6di@attbi.com>
Date: Tue, 01 Jan 2002 09:12:49 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-54497-2002.01.01-11.42.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,
I do not have a rain gauge installed, and it never had one.

Unfortunately I can't do too much testing for you until I get another t238
as mine is getting packaged up on the mountain. Another soon though...

Arnold

William Beals wrote:
>
> Arnold (and anyone else with bus voltage issues):
>
> I may have found the issue where the bus voltage is not being reported
> correctly. To confirm, I need to know if the folk having this problem have
> rain gauges installed or not. Thanks in advance.
>
> will
>
> ==========
> This message sent using 100% recycled electrons.
> (minimum 30% post-consumer)
> ==========
> Will Beals
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Re: Bus Voltage issue

From: "William Beals" <will@beals5.com>
Date: Tue, 1 Jan 2002 10:35:56 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-54502-2002.01.01-12.02.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Arnold:

Cool, then I think I have isolated the problem. I had a logic error where I
failed to initialize the A/D unless the rain gauge was installed.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
Sent: Tuesday, January 01, 2002 10:13 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Bus Voltage issue

Will,
I do not have a rain gauge installed, and it never had one.

Unfortunately I can't do too much testing for you until I get another t238
as mine is getting packaged up on the mountain. Another soon though...

Arnold

William Beals wrote:
>
> Arnold (and anyone else with bus voltage issues):
>
> I may have found the issue where the bus voltage is not being reported
> correctly. To confirm, I need to know if the folk having this problem
have
> rain gauges installed or not. Thanks in advance.
>
> will
>
> ==
> This message sent using 100% recycled electrons.
> (minimum 30% post-consumer)
> ==
> Will Beals
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] Battery voltage application note

From: "William Beals" <will@beals5.com>
Date: Tue, 1 Jan 2002 10:42:51 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-54506-2002.01.01-12.09.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Been tinkering with the battery voltage display for a while this morning. I
have been chasing what appeared to be some noise on the readings versus my
DMM. I isolated the problem to AC ripple on the "battery voltage" (in my
case an AC adapter). The A/D by its nature takes a high speed (20us) sample
of the incoming voltage, so if there is ripple on the incoming voltage, this

ripple will show up as variations in the reading.

DO NOT try to put a capacitor on the signal from the potentiometer to the
A/D input on the 6808, this will not help. I keep the line actively
grounded except for sampling so that I do not have a floating input for the
folk that do not have this circuitry installed. Adding a cap will not hurt,
but will just result in erroneously low readings.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] Lightning detection

From: "Charles L. Stackhouse" <cstack@linkny.com>
Date: Tue, 1 Jan 2002 12:24:39 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-54514-2002.01.01-14.10.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Here is a link to a nice project for a simple homemade lightning detector.

http://www.timbitson.com/weather/owlm/index.html

Charlie WA2IPZ
Bluff Point, NY
cstack@linkny.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] Re: Lightning detection

From: kf4chg <kf4chg@earthlink.net>
Date: Tue, 01 Jan 2002 19:46:47 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-54590-2002.01.01-19.15.31--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Here is a link to a another homemade lightning detector that could possibly be
modified to work with the T-238.

http://www.techlib.com/electronics/lightning.html

Ed KF4CHG
Lake City, FL

"Charles L. Stackhouse" wrote:

> Here is a link to a nice project for a simple homemade lightning detector.
>
> http://www.timbitson.com/weather/owlm/index.html
>
> Charlie WA2IPZ
> Bluff Point, NY
> cstack@linkny.com
>
> ---
> You are currently subscribed to wxsig as: kf4chg@arrl.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] 1.13.1 Release

From: "William Beals" <will@beals5.com>
Date: Fri, 4 Jan 2002 21:45:54 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-55311-2002.01.04-23.22.37--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

Just put up 1.13.1. Here are the release notes, this is mainly a bug and feature cleanup round. Thanks to everyone who helped pointing things out and isolating issues. Items of particular note are:

1.13.0 allowed you to select either the DS18x20 or humidity sensor for your temperature display, but dewpoint was always calculated using the humidity sensors temperature sensor. This resulted in some illogical readings when the two sensors were at different temperatures like the dewpoint being higher than the current temperature. Now both temperature and dewpoint are calculated using the same sensor.

Some folk were having trouble with the bus and battery voltages. I had a bug where the A/D was not initialized correctly when the rain gauge was not installed.

I knew in 1.13.0 that the dewpoint was not as accurate as I thought it should be. I attributed this to rounding errors, it wasn't I had a logic error in my fixed-point math that introduced bigger errors as the humidity dropped. That is now fixed and dewpoint values should be no more than two degrees from theoretical.

Full bulleted list:

* Fixed a rollover problem where November rolled to January (!!)
* New X-Y coordinate scheme for screen updates (thanks Bill!)
* Checked default baud rates when UART mode changes--OK.
* Re-organized RAM into $50-$ff and >=$100 regions for better index control.
* Moved Rain table (RANTBL) to >$100
* Now displayed temperature and dewpoint come from user-selected temp sensor
* Fixed bug where A/D not initialized if no rain gauge.
* Fixed bug where dewpoint math was off by up to ~10 degrees
* Did better job of rounding displayed temperature in C.
* Don't show dewpoint if temperature or humidity error (only humidity before)

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] DS1994 clock

From: Arnold Harding <kq6di@attbi.com>
Date: Sat, 05 Jan 2002 10:44:25 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-55433-2002.01.05-13.14.18--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I want to make sure I have the DS1994 clock procedure correct. I've seen several messages go by about this, and there isn't a lot of complaints, so I assume it works. I just won't know until I've driven an hour and a half if I did it right.

1. Using the TMEX software from Dallas, connect the DS1994 to an iButton reader and set time and start oscillator. Do not set any write protect bits. Time in the DS1994 should be set to UTC time.

2. Install the DS1994 onto (into) the T-238 1-wire bus. Power up the
T-238 and set time and UTC offset (local hour).

3. Done. Every future power up will read time from the DS1994.

Is it just that easy?

thanks, Arnold Harding

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] Re: DS1994 clock

From: "Mark Phillips" <g7ltt@g7ltt.com>
Date: Sat, 5 Jan 2002 15:01:15 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-55437-2002.01.05-14.30.46--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yup. Just be careful not to set the read only bit or you won't be able to
correct it if ever it goes wrong.

I think the norm is to set it to UTC too.

Mark, KC2ENI

----- Original Message -----
From: "Arnold Harding" <kq6di@attbi.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Saturday, January 05, 2002 1:44 PM
Subject: [wxsig] DS1994 clock

> I want to make sure I have the DS1994 clock procedure correct. I've seen
> several messages go by about this, and there isn't a lot of complaints, so
> I assume it works. I just won't know until I've driven an hour and a half
> if I did it right.
>
> 1. Using the TMEX software from Dallas, connect the DS1994 to an iButton
> reader and set time and start oscillator. Do not set any write protect
> bits. Time in the DS1994 should be set to UTC time.
>
> 2. Install the DS1994 onto (into) the T-238 1-wire bus. Power up the
> T-238 and set time and UTC offset (local hour).
>
> 3. Done. Every future power up will read time from the DS1994.
>
>
> Is it just that easy?
>
> thanks, Arnold Harding
>
> ---
> You are currently subscribed to wxsig as: g7ltt@g7ltt.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] Re: DS1994 clock

From: "William Beals" <will@beals5.com>
Date: Sat, 5 Jan 2002 20:41:17 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-55494-2002.01.05-22.07.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Arnold and Mark:

You both have it correct. Do set the time to UTC.

will

-----Original Message-----

From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Mark Phillips
Sent: Saturday, January 05, 2002 1:01 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: DS1994 clock

Yup. Just be careful not to set the read only bit or you won't be able to
correct it if ever it goes wrong.

I think the norm is to set it to UTC too.

Mark, KC2ENI

----- Original Message -----
From: "Arnold Harding" <kq6di@attbi.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Saturday, January 05, 2002 1:44 PM
Subject: [wxsig] DS1994 clock

> I want to make sure I have the DS1994 clock procedure correct. I've seen
> several messages go by about this, and there isn't a lot of complaints, so
> I assume it works. I just won't know until I've driven an hour and a half
> if I did it right.
>
> 1. Using the TMEX software from Dallas, connect the DS1994 to an iButton
> reader and set time and start oscillator. Do not set any write protect
> bits. Time in the DS1994 should be set to UTC time.
>
> 2. Install the DS1994 onto (into) the T-238 1-wire bus. Power up the
> T-238 and set time and UTC offset (local hour).
>
> 3. Done. Every future power up will read time from the DS1994.
>
>
> Is it just that easy?
>
> thanks, Arnold Harding
>
> ---
> You are currently subscribed to wxsig as: g7ltt@g7ltt.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] Wind direction errors messing up the clock

From: "William Beals" <will@beals5.com>
Date: Sun, 6 Jan 2002 12:45:04 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-55600-2002.01.06-14.11.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This is for David Meadows and anyone else experiencing slow clock issues:

I would like to better understand your setup so I can look for what is
causing the slow clock. What kind of wind sensor do you have (Dallas vs
AAG)? I'm pretty sure it is Dallas sensor, but I want to make sure so I am
looking at the correct code. I will tinker with the idea of re-reading the
DS1994 time on a regular basis, but would like to take a stab at correcting
the root problem first.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place

Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] Re: Wind direction errors messing up the clock

From: Michael Barelli "W□MAF" <barelmic@yahoo.com>
Date: Sun, 6 Jan 2002 21:36:17 -0800 (PST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-55695-2002.01.07-00.05.45--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have the Dallas wind sensors. I have noticed that when the reeds go bad the errors show up on the display as ---. The clock will then be slow. When I fix the reeds the problem goes away. I have not put the resistor fix as I want to see the errors.
William Beals <will@beals5.com> wrote: This is for David Meadows and anyone else experiencing slow clock issues:

I would like to better understand your setup so I can look for what is causing the slow clock. What kind of wind sensor do you have (Dallas vs AAG)? I'm pretty sure it is Dallas sensor, but I want to make sure so I am looking at the correct code. I will tinker with the idea of re-reading the DS1994 time on a regular basis, but would like to take a stab at correcting the root problem first.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: barelmic@yahoo.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

Michael Barelli W□MAF

Do You Yahoo!?
Send FREE video emails in Yahoo! Mail.

13. [wxsig] Re: wxsig digest: January 06, 2002

From: David Meadows <david.meadows@sympatico.ca>
Date: Mon, 07 Jan 2002 11:50:53 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-55763-2002.01.07-11.20.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have a Dallas wind sensor. I have not installed the 470K solution as I am waiting for warmer weather. I have a DS1994 on order from Dallas.

In the mean time I need to obtain a new LCD module, the problem with the module was created by me, stuff like that happens on occasion. I have sent a message to TAPR to see if they can supply. I was looking at the module to determine the manufacturer and model but could not find much info. Would appreciate the details on a replacement and where it can be purchased.

73
David Meadows
VE3AFZ
Ottawa Canada

At 01:01 AM 07/01/02 , you wrote:
>TAPR WX Special Interest Group Digest for Sunday, January 06, 2002.

>
>1. Wind direction errors messing up the clock
>
>--
>
>Subject: Wind direction errors messing up the clock
>From: "William Beals" <will@beals5.com>
>Date: Sun, 6 Jan 2002 12:45:04 -0700
>X-Message-Number: 1
>
>This is for David Meadows and anyone else experiencing slow clock issues:
>
>I would like to better understand your setup so I can look for what is
>causing the slow clock. What kind of wind sensor do you have (Dallas vs
>AAG)? I'm pretty sure it is Dallas sensor, but I want to make sure so I am
>looking at the correct code. I will tinker with the idea of re-reading the
>DS1994 time on a regular basis, but would like to take a stab at correcting
>the root problem first.
>
>will
>
>==
>This message sent using 100% recycled electrons.
>(minimum 30% post-consumer)
>==
>Will Beals
>15014 East Idaho Place
>Aurora, CO 80012
>303-755-0293
>will@beals5.com
>
>
>
>
>---
>
>END OF DIGEST
>
>---
>You are currently subscribed to wxsig as: david.meadows@sympatico.ca
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] Re: wxsig digest: January 06, 2002

From: Ken Brown <Ken.Brown@ounnws.noaa.gov>
Date: Mon, 07 Jan 2002 20:47:29 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-55777-2002.01.07-15.16.57--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

David,

The technical info for the LCD display is on Wills web page. Go to

http://www.beals5.com/wx/

and check out "Useful Links" on left side of the main page. The LCD
info is toward the bottom of the links.
--
Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

David Meadows wrote:
>
> I have a Dallas wind sensor. I have not installed the 470K solution as I
> am waiting for warmer weather. I have a DS1994 on order from Dallas.
>
> In the mean time I need to obtain a new LCD module, the problem with the
> module was created by me, stuff like that happens on occasion. I have sent
> a message to TAPR to see if they can supply. I was looking at the module
> to determine the manufacturer and model but could not find much info.
> Would appreciate the details on a replacement and where it can be purchased.
>

> 73
> David Meadows
> VE3AFZ
> Ottawa Canada

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] Re: Wind direction errors messing up the clock

From: "William Beals" <will@beals5.com>
Date: Mon, 7 Jan 2002 21:02:21 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-55852-2002.01.07-22.28.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Michael:

Thanks for confirming this. I think I have the trouble area isolated. Alas it is something tricky where I have to be particularly paranoid about getting a transaction done and take the time to do it. I think I understand why the "470K fix" works as well.

will
-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Michael Barelli WØMAF
Sent: Sunday, January 06, 2002 10:36 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Wind direction errors messing up the clock

I have the Dallas wind sensors. I have noticed that when the reeds go bad the errors show up on the display as ---. The clock will then be slow. When I fix the reeds the problem goes away. I have not put the resistor fix as I want to see the errors.

> William Beals <will@beals5.com> wrote:
>
> This is for David Meadows and anyone else experiencing slow clock issues:
>
> I would like to better understand your setup so I can look for what is
> causing the slow clock. What kind of wind sensor do you have (Dallas vs
> AAG)? I'm pretty sure it is Dallas sensor, but I want to make sure so I am
> looking at the correct code. I will tinker with the idea of re-reading the
> DS1994 time on a regular basis, but would like to take a stab at correcting
> the root problem first.
>
> will
>
> ==
> This message sent using 100% recycled electrons.
> (minimum 30% post-consumer)
> ==
> Will Beals
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
> ---
> You are currently subscribed to wxsig as: barelmic@yahoo.com
> To unsubscribe send a blank email to leave-wxsig-21132Y@lists.tapr.org

Michael Barelli WØMAF

--
  Do You Yahoo!?
  Send FREE video emails in Yahoo! Mail.

16. [wxsig] Re: wxsig digest: January 07, 2002

From: David Meadows <david.meadows@sympatico.ca>
Date: Wed, 09 Jan 2002 13:02:55 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-56200-2002.01.09-12.32.54--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 01:02 AM 08/01/02 , you wrote:
>
> TAPR WX Special Interest Group Digest for Monday, January 07, 2002.
>
> 1. Re: Wind direction errors messing up the clock
> 2. Re: wxsig digest: January 06, 2002
> 3. Re: wxsig digest: January 06, 2002
> 4. Re: Wind direction errors messing up the clock
>
> --
>
> Subject: Re: Wind direction errors messing up the clock
> From: Michael Barelli "WØMAF" <barelmic@yahoo.com>
> Date: Sun, 6 Jan 2002 21:36:17 -0800 (PST)
> X-Message-Number: 1
>
> --0-321110521-1010381777=:56259
> Content-Type: text/plain; charset=us-ascii
>
>
> I have the Dallas wind sensors. I have noticed that when the reeds go bad
> the errors show up on the display as ---. The clock will then be slow. When I
> fix the reeds the problem goes away. I have not put the resistor fix as I
> want to see the errors.
>   William Beals <will@beals5.com> wrote: This is for David Meadows and anyone
> else experiencing slow clock issues:
>
> I would like to better understand your setup so I can look for what is
> causing the slow clock. What kind of wind sensor do you have (Dallas vs
> AAG)? I'm pretty sure it is Dallas sensor, but I want to make sure so I am
> looking at the correct code. I will tinker with the idea of re-reading the
> DS1994 time on a regular basis, but would like to take a stab at correcting
> the root problem first.
>
> will
>
> ==
> This message sent using 100% recycled electrons.
> (minimum 30% post-consumer)
> ==
> Will Beals
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
>
> ---
> You are currently subscribed to wxsig as: barelmic@yahoo.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
>
> Michael Barelli WØMAF
>
>
>
> ---------------------------------
> Do You Yahoo!?
> Send FREE video emails in Yahoo! Mail.
> --0-321110521-1010381777=:56259
> Content-Type: text/html; charset=us-ascii
>
> <P> I have the Dallas wind sensors. I have noticed that when the reeds
> go bad the errors show up on the display as ---. The clock will then be
> slow. When I fix the reeds the problem goes away. I have not put the
> resistor fix as I want to see the errors.
> <P> <B><I>William Beals <will@beals5.com></I></B> wrote:

> <BLOCKQUOTE style="BORDER-LEFT: #1010ff 2px solid; MARGIN-LEFT: 5px;
> PADDING-LEFT: 5px">This is for David Meadows and anyone else experiencing
> slow clock issues:

I would like to better understand your setup so I
> can look for what is
causing the slow clock. What kind of wind sensor do
> you have (Dallas vs
AAG)? I'm pretty sure it is Dallas sensor, but I want
> to make sure so I am
looking at the correct code. I will tinker with the
> idea of re-reading the
DS1994 time on a regular basis, but would like to
> take a stab at correcting
the root problem
> first.

will

==<
> BR>This message sent using 100% recycled electrons.
(minimum 30%
> post-consumer)
==
Will
> Beals
15014 East Idaho Place
Aurora, CO
> 80012
303-755-0293
will@beals5.com

You are currently
> subscribed to wxsig as: barelmic@yahoo.com
To unsubscribe send a blank
> email to leave-wxsig-15067P@lists.tapr.org
</BLOCKQUOTE>

>
Michael Barelli WØMAF
>
<p>
<hr size=1>Do You Yahoo!?
> Send FREE <a
> href="http://rd.yahoo.com/mail_us/tag/?http://promo.yahoo.com/videomail/">
> video emails in <a
> href="http://rd.yahoo.com/mail_us/tag/?http://mail.yahoo.com/">Yahoo!
> Mail.
> --0-321110521-1010381777=:56259--
>
> --
>
> Subject: Re: wxsig digest: January 06, 2002
> From: David Meadows <david.meadows@sympatico.ca>
> Date: Mon, 07 Jan 2002 11:50:53 -0500
> X-Message-Number: 2
>
> I have a Dallas wind sensor. I have not installed the 470K solution as I
> am waiting for warmer weather. I have a DS1994 on order from Dallas.
>
> In the mean time I need to obtain a new LCD module, the problem with the
> module was created by me, stuff like that happens on occasion. I have sent
> a message to TAPR to see if they can supply. I was looking at the module
> to determine the manufacturer and model but could not find much info.
> Would appreciate the details on a replacement and where it can be purchased.
>
> 73
> David Meadows
> VE3AFZ
> Ottawa Canada
>
> At 01:01 AM 07/01/02 , you wrote:
> >TAPR WX Special Interest Group Digest for Sunday, January 06, 2002.
> >
> >1. Wind direction errors messing up the clock
> >
> >--
> >
> >Subject: Wind direction errors messing up the clock
> >From: "William Beals" <will@beals5.com>
> >Date: Sun, 6 Jan 2002 12:45:04 -0700
> >X-Message-Number: 1
> >
> >This is for David Meadows and anyone else experiencing slow clock issues:
> >
> >I would like to better understand your setup so I can look for what is
> >causing the slow clock. What kind of wind sensor do you have (Dallas vs
> >AAG)? I'm pretty sure it is Dallas sensor, but I want to make sure so I am
> >looking at the correct code. I will tinker with the idea of re-reading the
> >DS1994 time on a regular basis, but would like to take a stab at correcting
> >the root problem first.
> >
> >will
> >
> >==
> >This message sent using 100% recycled electrons.
> >(minimum 30% post-consumer)
> >==
> >Will Beals
> >15014 East Idaho Place
> >Aurora, CO 80012
> >303-755-0293
> >will@beals5.com
> >
> >

> >
> >
> >---
> >
> >END OF DIGEST
> >
> >---
> >You are currently subscribed to wxsig as: david.meadows@sympatico.ca
> >To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
>
> --
>
> Subject: Re: wxsig digest: January 06, 2002
> From: Ken Brown <Ken.Brown@ounnws.noaa.gov>
> Date: Mon, 07 Jan 2002 20:47:29 +0000
> X-Message-Number: 3

Ken

Thanks for the information, my problem is where to buy an LCD replacement
anyone know where they are available in qualities of one. Looked at a number
of sites but not have found Seiko products..

David

>
> David,
>
> The technical info for the LCD display is on Wills web page. Go to
>
> http://www.beals5.com/wx/
>
> and check out "Useful Links" on left side of the main page. The LCD
> info is toward the bottom of the links.
> --
> Kenneth A. Brown, WFO OUN, Norman OK
> Ken.Brown@ounnws.noaa.gov
>

>
> David Meadows wrote:
> >
> > I have a Dallas wind sensor. I have not installed the 470K solution as I
> > am waiting for warmer weather. I have a DS1994 on order from Dallas.
> >
> > In the mean time I need to obtain a new LCD module, the problem with the
> > module was created by me, stuff like that happens on occasion. I have sent
> > a message to TAPR to see if they can supply. I was looking at the module
> > to determine the manufacturer and model but could not find much info.
> > Would appreciate the details on a replacement and where it can be
> purchased.
> >
> > 73
> > David Meadows
> > VE3AFZ
> > Ottawa Canada
>
> --
>
> Subject: Re: Wind direction errors messing up the clock
> From: "William Beals" <will@beals5.com>
> Date: Mon, 7 Jan 2002 21:02:21 -0700
> X-Message-Number: 4
>
> This is a multi-part message in MIME format.
>
> ------=_NextPart_000_000B_01C197BE.994FAA80
> Content-Type: text/plain;
>   charset="iso-8859-1"
> Content-Transfer-Encoding: Quoted-Printable
>
> Michael:
>

> Thanks for confirming this. I think I have the trouble area isolated. A=
> las
> it is something tricky where I have to be particularly paranoid about
> getting a transaction done and take the time to do it. I think I underst=
> and
> why the "470K fix" works as well.
>
> will
>   -----Original Message-----
>   From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Michael Barelli W=D8=
> MAF
>   Sent: Sunday, January 06, 2002 10:36 PM
>   To: TAPR WX Special Interest Group
>   Subject: [wxsig] Re: Wind direction errors messing up the clock
>
>
>   I have the Dallas wind sensors. I have noticed that when the reeds go =
> bad
> the errors show up on the display as ---. The clock will then be slow. Wh=
> en
> I fix the reeds the problem goes away. I have not put the resistor fix a=
> s I
> want to see the errors.
>
>   William Beals <will@beals5.com> wrote:
>
>   This is for David Meadows and anyone else experiencing slow clock
> issues:
>
>   I would like to better understand your setup so I can look for what i=
> s
>   causing the slow clock. What kind of wind sensor do you have (Dallas =
> vs
>   AAG)? I'm pretty sure it is Dallas sensor, but I want to make sure so=
> I
> am
>   looking at the correct code. I will tinker with the idea of re-readin=
> g
> the
>   DS1994 time on a regular basis, but would like to take a stab at
> correcting
>   the root problem first.
>
>   will
>
>   =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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>   (minimum 30% post-consumer)
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>   Will Beals
>   15014 East Idaho Place
>   Aurora, CO 80012
>   303-755-0293
>   will@beals5.com
>
>
>   ---
>   You are currently subscribed to wxsig as: barelmic@yahoo.com
>   To unsubscribe send a blank email to leave-wxsig-21132Y@lists.tapr.or=
> g
>
>
>
>
>   Michael Barelli W=D8MAF
>
>
>
>
>
> --=
> ---
> --
>   Do You Yahoo!?
>   Send FREE video emails in Yahoo! Mail.
>

> ------=_NextPart_000_000B_01C197BE.994FAA80
> Content-Type: text/html;
>   charset="iso-8859-1"
> Content-Transfer-Encoding: Quoted-Printable
>
> <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
> Michael:
>
> Thanks=20 for confirming this. I think I have the trouble area = isolated.
> Alas=20 it is something tricky where I have to be particularly paranoid about
> = getting a=20 transaction done and take the time to do it. I think I =
> understand why=20 the "470K fix" works as well.
>
> will
>>
>> -----Original Message-----
>> From:=20 bounce-wxsig-21132@lists.tapr.org=20
>> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Michael = Barelli=20
>> W=D8MAF
>> Sent: Sunday, January 06, 2002 10:36 = PM
>> To: TAPR WX=20 Special Interest Group
>> Subject: [wxsig] Re: Wind direction = errors=20 messing up the clock
>>
>> I have the Dallas wind sensors. I have noticed that when the = reeds go=20
>> bad the errors show up on the display as ---. The clock will then = be=20
>> slow. When I fix the reeds the problem goes away. I have not put = the=20
>> resistor fix as I want to see the errors.=20
>>
>>   William Beals <will@beals5.com> wrote:=20
>>
>> I would like to better understand your setup so I can = look=20 for what is
>> causing the slow clock. What kind of wind sensor do = you have=20 (Dallas vs
>> AAG)? I'm pretty sure it is Dallas sensor, but I want = to make=20 sure so I
>> am
>> looking at the correct code. I will tinker with the = idea of=20 re-reading
>> the
>> DS1994 time on a regular basis, but would like to = take a=20 stab at
>> correcting
>> the root problem=20 = first.
>>
>> will
>>
>> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
>> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
>> =3D=3D=3D=3D=3D=3D=3D
>> This=20 message sent using 100% recycled electrons.
>> (minimum 30%=20 = post-consumer)
>> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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>> =3D=3D=3D=3D
>> Will=20 Beals
>> 15014 East Idaho Place
>> Aurora, CO=20 80012
>> 303-755-0293
>> will@beals5.com
>>
>>
>>
>> ---
>> You are = currently=20 subscribed to wxsig as: barelmic@yahoo.com
>> To unsubscribe send a = blank=20 email to =
>> leave-wxsig-15067P@lists.tapr.org
>>
>>
>>
>>
>> Michael=20 Barelli W=D8MAF
>>
>>
>>
>> Do You Yahoo!?
>> Send FREE <3d.htm>Yahoo!=20 Mail.
>>
>> </HTML>
>>
>> ------=_NextPart_000_000B_01C197BE.994FAA80--
>>
>>
>>

>>
>> ---
>>
>> END OF DIGEST
>>
>> ---
>> You are currently subscribed to wxsig as: david.meadows@sympatico.ca
>> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
>

17. [wxsig] LCD Display Vendor

From: Ken Brown <Ken.Brown@ounnws.noaa.gov>
Date: Wed, 09 Jan 2002 20:11:56 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-56214-2002.01.09-14.41.36--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

David,

I just looked at http://www.mouser.com and typed in
L2034B1J000 in the search box in the upper left of the opening page
and it took me to the item. It looks the same as the data from the
Seiko web page. In an old Mouser catalog the price is around $55.00.

You might give them a call at 800-346-6873. Orders I have placed
are shipped from their Texas location and in my hands (in Oklahoma)
the next day.

Failing this, you might look on the Seiko page to see if they list
distributors.
--
Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

18. [wxsig] Re: LCD Display Vendor

From: Arnold Harding <kq6di@attbi.com>
Date: Wed, 09 Jan 2002 12:33:20 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-56216-2002.01.09-15.03.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At work, we use the same LCD as in the T-238. Several (lots of) different
vendors sell the nearly identical LCD. They are all interchangeable. Some
use a different LCD material, supertwist or whatever, some have backlights,
others not. As long as it's 4x20 as suggested below, you should be fine.
Mouser is a good source.
Arnold Harding

Ken Brown wrote:
>
> David,
>
> I just looked at http://www.mouser.com and typed in
> L2034B1J000 in the search box in the upper left of the opening page
> and it took me to the item. It looks the same as the data from the
> Seiko web page. In an old Mouser catalog the price is around $55.00.
>
> You might give them a call at 800-346-6873. Orders I have placed
> are shipped from their Texas location and in my hands (in Oklahoma)
> the next day.
>
> Failing this, you might look on the Seiko page to see if they list
> distributors.
> --
> Kenneth A. Brown, WFO OUN, Norman OK
> Ken.Brown@ounnws.noaa.gov
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org

To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

19. [wxsig] BURNING EPROM ON T-238

From: "Tim Siegel" <ICEMAN@WESNET.COM>
Date: Wed, 9 Jan 2002 18:56:33
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-56261-2002.01.09-19.26.09--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello i have a question about the t-238 interface. We are thinking about placing the Dallas weather stations in 7 locations around our county. We would use the interfaces to transmit the data on packet so the weather could be viewed at one place. This way the sheriff and EMA could know what's going on thought out the county. What we are wondering is if we put these up is the a way to have the weather interface transmit the station location. Could you burn a name or number into the EPROM so that we would know what station the data is coming from. I have one of the Dallas stations and the interface and we are doing testing on the unit now. Thanks for any help you can give. Tim Siegel KC8OIG

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

20. [wxsig] RE: BURNING EPROM ON T-238

From: "Kevin Brown" <kbrown@powerhouseproductions.com>
Date: Wed, 9 Jan 2002 19:09:46 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-56262-2002.01.09-19.39.42--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Have you at ALL considered APRS?

It combines the best of both the worlds you already want to tie together. Positional data, and weather. On a packet-based network, with maps.
We've got some folks doing precisely this in our area...

-----Original Message-----
From: bounce-wxsig-20681@lists.tapr.org
[mailto:bounce-wxsig-20681@lists.tapr.org] On Behalf Of Tim Siegel
Sent: Wednesday, January 09, 2002 6:57 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] BURNING EPROM ON T-238

Hello i have a question about the t-238 interface. We are thinking about

placing the Dallas weather stations in 7 locations around our county. We

would use the interfaces to transmit the data on packet so the weather could be viewed at one place. This way the sheriff and EMA could know what's going on thought out the county. What we are wondering is if we put
these up is the a way to have the weather interface transmit the station

location. Could you burn a name or number into the EPROM so that we would
know what station the data is coming from. I have one of the Dallas stations and the interface and we are doing testing on the unit now. Thanks
for any help you can give. Tim Siegel KC8OIG

You are currently subscribed to wxsig as: kbrown@powerhouseproductions.com To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

21. [wxsig] Re: wxsig digest: January 07, 2002

From: "William Beals" <will@beals5.com>
Date: Wed, 9 Jan 2002 20:37:05 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-56279-2002.01.09-22.16.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Dave:

Is there a question or comment buried in the copied material? I'm copying
the whole thing in case you need to look at something.

will
-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of David Meadows
Sent: Wednesday, January 09, 2002 11:03 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: wxsig digest: January 07, 2002

At 01:02 AM 08/01/02 , you wrote:

TAPR WX Special Interest Group Digest for Monday, January 07, 2002.

1. Re: Wind direction errors messing up the clock
2. Re: wxsig digest: January 06, 2002
3. Re: wxsig digest: January 06, 2002
4. Re: Wind direction errors messing up the clock

Subject: Re: Wind direction errors messing up the clock
From: Michael Barelli "WØMAF" <barelmic@yahoo.com>
Date: Sun, 6 Jan 2002 21:36:17 -0800 (PST)
X-Message-Number: 1

--0-321110521-1010381777=:56259
Content-Type: text/plain; charset=us-ascii

I have the Dallas wind sensors. I have noticed that when the reeds go
bad the errors show up on the display as ---. The clock will then be slow.
When I fix the reeds the problem goes away. I have not put the resistor fix
as I want to see the errors.
William Beals <will@beals5.com> wrote: This is for David Meadows and
anyone else experiencing slow clock issues:

I would like to better understand your setup so I can look for what is
causing the slow clock. What kind of wind sensor do you have (Dallas vs
AAG)? I'm pretty sure it is Dallas sensor, but I want to make sure so I
am
looking at the correct code. I will tinker with the idea of re-reading
the
DS1994 time on a regular basis, but would like to take a stab at
correcting
the root problem first.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: barelmic@yahoo.com
To unsubscribe send a blank email to leave-wxsig-21132Y@lists.tapr.org

Michael Barelli WØMAF

```
    ---------------------------------
    Do You Yahoo!?
    Send FREE video emails in Yahoo! Mail.
    --0-321110521-1010381777=:56259
    Content-Type: text/html; charset=us-ascii

    <P> I have the Dallas wind sensors.  I have noticed that when the
reeds go bad the errors show up on the display as ---. The clock will
then be slow. When I fix the reeds the problem goes away.  I have not
put the resistor fix as I want to see the errors.
    <P>  <B><I>William Beals &lt;will@beals5.com&gt;</I></B> wrote:
    <BLOCKQUOTE style="BORDER-LEFT: #1010ff 2px solid; MARGIN-LEFT: 5px;
PADDING-LEFT: 5px">This is for David Meadows and anyone else experiencing
slow clock issues:<BR><BR>I would like to better understand your setup so I
can look for what is<BR>causing the slow clock. What kind of wind sensor do
you have (Dallas vs<BR>AAG)? I'm pretty sure it is Dallas sensor, but I want
to make sure so I am<BR>looking at the correct code. I will tinker with the
idea of re-reading the<BR>DS1994 time on a regular basis, but would like to
take a stab at correcting<BR>the root problem
first.<BR><BR>will<BR><BR>==============================================<BR
>This message sent using 100% recycled electrons.<BR>(minimum 30%
post-consumer)<BR>==============================================<BR>Will
Beals<BR>15014 East Idaho Place<BR>Aurora, CO
80012<BR>303-755-0293<BR>will@beals5.com<BR><BR><BR>---<BR>You are currently
subscribed to wxsig as: barelmic@yahoo.com<BR>To unsubscribe send a blank
email to leave-wxsig-15067P@lists.tapr.org<BR></BLOCKQUOTE><BR><BR>
    <br>Michael Barelli WØMAF
    <br><p><br><hr size=1><b>Do You Yahoo!?</b><br>
    Send FREE <a
href="http://rd.yahoo.com/mail_us/tag/?http://promo.yahoo.com/videomail/">vi
deo</a> emails in <a
href="http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/3D&amp;quot;http://rd.yahoo.com/mail_
us/tag/?http://mail.yahoo.com/&amp;quot;">Yahoo!
Mail</a>.
    --0-321110521-1010381777=:56259--

    ------------------------------------------------------------------------

    Subject: Re: wxsig digest: January 06, 2002
    From: David Meadows <david.meadows@sympatico.ca>
    Date: Mon, 07 Jan 2002 11:50:53 -0500
    X-Message-Number: 2

    I have a Dallas wind sensor.  I have not installed the 470K solution as
I
    am waiting for warmer weather.  I have a DS1994 on order from Dallas.

    In the mean time I need to obtain a new LCD module, the problem with the
    module was created by me, stuff like that happens on occasion.  I have
sent
    a message to TAPR to see if they can supply.  I was looking at the
module
    to determine the manufacturer and model but could not find much info.
    Would appreciate the details on a replacement and where it can be
purchased.

    73
    David Meadows
    VE3AFZ
    Ottawa Canada

    At 01:01 AM 07/01/02 , you wrote:
    >TAPR WX Special Interest Group Digest for Sunday, January 06, 2002.
    >
    >1. Wind direction errors messing up the clock
    >
    >------------------------------------------------------------------------
    >
    >Subject: Wind direction errors messing up the clock
    >From: "William Beals" <will@beals5.com>
    >Date: Sun, 6 Jan 2002 12:45:04 -0700
    >X-Message-Number: 1
    >
    >This is for David Meadows and anyone else experiencing slow clock
issues:
    >
    >I would like to better understand your setup so I can look for what is
    >causing the slow clock.  What kind of wind sensor do you have (Dallas
vs
```

>AAG)? I'm pretty sure it is Dallas sensor, but I want to make sure so I am
>looking at the correct code. I will tinker with the idea of re-reading the
>DS1994 time on a regular basis, but would like to take a stab at correcting
>the root problem first.
>
>will
>
>===
>This message sent using 100% recycled electrons.
>(minimum 30% post-consumer)
>===
>Will Beals
>15014 East Idaho Place
>Aurora, CO 80012
>303-755-0293
>will@beals5.com
>
>
>
>
>---
>
>END OF DIGEST
>
>---
>You are currently subscribed to wxsig as: david.meadows@sympatico.ca
>To unsubscribe send a blank email to leave-wxsig-21132Y@lists.tapr.org

---

Subject: Re: wxsig digest: January 06, 2002
From: Ken Brown <Ken.Brown@ounnws.noaa.gov>
Date: Mon, 07 Jan 2002 20:47:29 +0000
X-Message-Number: 3

Ken

Thanks for the information, my problem is where to buy an LCD replacement anyone know where they are available in qualities of one. Looked at a number of sites but not have found Seiko products..

David

David,

The technical info for the LCD display is on Wills web page. Go to

http://www.beals5.com/wx/

and check out "Useful Links" on left side of the main page. The LCD info is toward the bottom of the links.
--
Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

David Meadows wrote:
>
> I have a Dallas wind sensor. I have not installed the 470K solution as I
> am waiting for warmer weather. I have a DS1994 on order from Dallas.
>
> In the mean time I need to obtain a new LCD module, the problem with the
> module was created by me, stuff like that happens on occasion. I have sent
> a message to TAPR to see if they can supply. I was looking at the module

> to determine the manufacturer and model but could not find much info.
> Would appreciate the details on a replacement and where it can be
purchased.
>
> 73
> David Meadows
> VE3AFZ
> Ottawa Canada

Subject: Re: Wind direction errors messing up the clock
From: "William Beals" <will@beals5.com>
Date: Mon, 7 Jan 2002 21:02:21 -0700
X-Message-Number: 4

This is a multi-part message in MIME format.

------=_NextPart_000_000B_01C197BE.994FAA80
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: Quoted-Printable

Michael:

Thanks for confirming this. I think I have the trouble area isolated.
A=
las
it is something tricky where I have to be particularly paranoid about
getting a transaction done and take the time to do it. I think I
understood=
and
why the "470K fix" works as well.

will
  -----Original Message-----
  From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Michael Barelli
W=D8=
MAF
  Sent: Sunday, January 06, 2002 10:36 PM
  To: TAPR WX Special Interest Group
  Subject: [wxsig] Re: Wind direction errors messing up the clock

  I have the Dallas wind sensors. I have noticed that when the reeds go
=
bad
the errors show up on the display as ---. The clock will then be slow.
Wh=
en
I fix the reeds the problem goes away. I have not put the resistor fix
a=
s I
want to see the errors.

    William Beals <will@beals5.com> wrote:

    This is for David Meadows and anyone else experiencing slow clock
issues:

    I would like to better understand your setup so I can look for what
i=
s
    causing the slow clock. What kind of wind sensor do you have (Dallas
=
vs
    AAG)? I'm pretty sure it is Dallas sensor, but I want to make sure
so=
 I
am
    looking at the correct code. I will tinker with the idea of
re-readin=
g
the
    DS1994 time on a regular basis, but would like to take a stab at
correcting
    the root problem first.

    will

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This message sent using 100% recycled electrons.
(minimum 30% post-consumer)

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Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: barelmic@yahoo.com
To unsubscribe send a blank email to
leave-wxsig-21132Y@lists.tapr.or=
g

Michael Barelli W=D8MAF

-=

--
Do You Yahoo!?
Send FREE video emails in Yahoo! Mail.

------=_NextPart_000_000B_01C197BE.994FAA80
Content-Type: text/html;
charset="iso-8859-1"
Content-Transfer-Encoding: Quoted-Printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
Michael:

Thanks=20 for confirming this. I think I have the trouble area =
isolated. Alas=20 it is something tricky where I have to be particularly
paranoid about = getting a=20 transaction done and take the time to do it.
I think I = understand why=20 the "470K fix" works as well.

will
-----Original Message-----
From:=20 bounce-wxsig-21132@lists.tapr.org=20
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Michael = Barelli=20
W=D8MAF
Sent: Sunday, January 06, 2002 10:36 = PM
To: TAPR WX=20 Special Interest Group
Subject: [wxsig] Re: Wind direction = errors=20 messing up the clock

I have the Dallas wind sensors. I have noticed that when the =
reeds go=20 bad the errors show up on the display as ---. The clock will
then = be=20 slow. When I fix the reeds the problem goes away. I have not
put = the=20 resistor fix as I want to see the errors.=20

William Beals <will@beals5.com> wrote:=20

I would like to better understand your setup so I can = look=20 for
what is
causing the slow clock. What kind of wind sensor do = you have=20
(Dallas vs
AAG)? I'm pretty sure it is Dallas sensor, but I want = to make=20
sure so I am
looking at the correct code. I will tinker with the = idea of=20
re-reading the
DS1994 time on a regular basis, but would like to = take a=20 stab

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at correcting
        the root problem=20 = first.


        will


        =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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        This=20 message sent using 100% recycled electrons.
        (minimum 30%=20 = post-consumer)
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=3D=3D=3D
        Will=20 Beals
        15014 East Idaho Place
        Aurora, CO=20 80012
        303-755-0293
        will@beals5.com




        ---
        You are = currently=20 subscribed to wxsig as: barelmic@yahoo.com
        To unsubscribe send a = blank=20 email to =
leave-wxsig-15067P@lists.tapr.org





      Michael=20 Barelli W=D8MAF



      Do You Yahoo!?
      Send FREE Yahoo!=20 Mail.

      </HTML>

      ------=_NextPart_000_000B_01C197BE.994FAA80--




      ---

      END OF DIGEST

      ---
      You are currently subscribed to wxsig as: david.meadows@sympatico.ca
      To unsubscribe send a blank email to leave-wxsig-21132Y@lists.tapr.org
```

22. [wxsig] Re: LCD Display Vendor

From: "William Beals" <will@beals5.com>
Date: Wed, 9 Jan 2002 20:39:10 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-56285-2002.01.09-22.17.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```
Chiming in with Arnold:

It is dangerous to guarantee something, but I have yet to find a 4x20
display that was not compatible.  The only area that may result in
mechanical difficulties is the 1x14 vs 2x7 header.  The T238 supports both
formats.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
Sent: Wednesday, January 09, 2002 1:33 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: LCD Display Vendor
```

At work, we use the same LCD as in the T-238. Several (lots of) different
vendors sell the nearly identical LCD. They are all interchangeable. Some
use a different LCD material, supertwist or whatever, some have backlights,
others not. As long as it's 4x20 as suggested below, you should be fine.
Mouser is a good source.
Arnold Harding

Ken Brown wrote:
>
> David,
>
> I just looked at http://www.mouser.com and typed in
> L2034B1J000 in the search box in the upper left of the opening page
> and it took me to the item. It looks the same as the data from the
> Seiko web page. In an old Mouser catalog the price is around $55.00.
>
> You might give them a call at 800-346-6873. Orders I have placed
> are shipped from their Texas location and in my hands (in Oklahoma)
> the next day.
>
> Failing this, you might look on the Seiko page to see if they list
> distributors.
> --
> Kenneth A. Brown, WFO OUN, Norman OK
> Ken.Brown@ounnws.noaa.gov
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

23. [wxsig] RE: BURNING EPROM ON T-238

From: "William Beals" <will@beals5.com>
Date: Wed, 9 Jan 2002 21:07:42 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-56291-2002.01.09-22.35.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Tim:

If you have a T238 and a TNC you are all set. The T238 doesn't really
identify itself beyond the optional location field (useful in its own
right). The callsign identification is added by the TNC. The callsign is
the one specified by the mycall parameter in the TNC. I think this addresses
your question, but if we're missing something, please elaborate.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Kevin Brown
Sent: Wednesday, January 09, 2002 6:10 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: BURNING EPROM ON T-238

Have you at ALL considered APRS?

It combines the best of both the worlds you already want to tie
together. Positional data, and weather. On a packet-based network,
with maps.
We've got some folks doing precisely this in our area...

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

24. [wxsig] Re: wxsig digest: January 09, 2002

From: David Meadows <david.meadows@sympatico.ca>
Date: Thu, 10 Jan 2002 22:32:55 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-56540-2002.01.10-22.03.27--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```
At 01:01 AM 10/01/02 , you wrote:
>
> TAPR WX Special Interest Group Digest for Wednesday, January 09, 2002.
>
> 1. Re: wxsig digest: January 07, 2002
> 2. LCD Display Vendor
> 3. Re: LCD Display Vendor
> 4. BURNING EPROM ON T-238
> 5. RE: BURNING EPROM ON T-238
> 6. Re: wxsig digest: January 07, 2002
> 7. Re: LCD Display Vendor
> 8. RE: BURNING EPROM ON T-238
>
> ----------------------------------------------------------------------
>
> Subject: Re: wxsig digest: January 07, 2002
> From: David Meadows <david.meadows@sympatico.ca>
> Date: Wed, 09 Jan 2002 13:02:55 -0500
> X-Message-Number: 1
>
> --=====================_167156531==_.ALT
> Content-Type: text/plain; charset="iso-8859-1"
> Content-Transfer-Encoding: quoted-printable
>
> At 01:02 AM 08/01/02 , you wrote:=20
> >
> > TAPR WX Special Interest Group Digest for Monday, January 07, 2002.
> >
> > 1. Re: Wind direction errors messing up the clock
> > 2. Re: wxsig digest: January 06, 2002
> > 3. Re: wxsig digest: January 06, 2002
> > 4. Re: Wind direction errors messing up the clock
> >
> > ----------------------------------------------------------------------
> >
> > Subject: Re: Wind direction errors messing up the clock
> > From: Michael Barelli "W=D8MAF" <barelmic@yahoo.com>
> > Date: Sun, 6 Jan 2002 21:36:17 -0800 (PST)
> > X-Message-Number: 1
> >
> > --0-321110521-1010381777=3D:56259
> > Content-Type: text/plain; charset=3Dus-ascii
> >
> >
> >  I have the Dallas wind sensors.  I have noticed that when the reeds go=
>  bad
> > the errors show up on the display as ---. The clock will then be slow.=
>  When I
> > fix the reeds the problem goes away.  I have not put the resistor fix as I
> > want to see the errors.
> >   William Beals <will@beals5.com> wrote: This is for David Meadows and=
>  anyone
> > else experiencing slow clock issues:
> >
> > I would like to better understand your setup so I can look for what is
> > causing the slow clock. What kind of wind sensor do you have (Dallas vs
> > AAG)? I'm pretty sure it is Dallas sensor, but I want to make sure so I am
> > looking at the correct code. I will tinker with the idea of re-reading the
> > DS1994 time on a regular basis, but would like to take a stab at=
>  correcting
> > the root problem first.
> >
> > will
> >
> > =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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> > This message sent using 100% recycled electrons.
> > (minimum 30% post-consumer)
> > =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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> > Will Beals
> > 15014 East Idaho Place
```

> > Aurora, CO 80012
> > 303-755-0293
> > will@beals5.com
> >
> >
> > ---
> > You are currently subscribed to wxsig as: barelmic@yahoo.com
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> >
> >
> > Michael Barelli W=D8MAF
> >
> >
> >
> > ---------------------------------
> > Do You Yahoo!?
> > Send FREE video emails in Yahoo! Mail.
> > --0-321110521-1010381777=3D:56259
> > Content-Type: text/html; charset=3Dus-ascii
> >
> > <P> I have the Dallas wind sensors. I have noticed that when the=
> reeds
> > go bad the errors show up on the display as ---. The clock will then=
> be
> > slow. When I fix the reeds the problem goes away. I have not put the
> > resistor fix as I want to see the errors.
> > <P> <B><I>William Beals <will@beals5.com></I></B> wrote:=20
> > <BLOCKQUOTE style=3D"BORDER-LEFT: #1010ff 2px solid; MARGIN-LEFT: 5px;
> > PADDING-LEFT: 5px">This is for David Meadows and anyone else experiencing
> > slow clock issues:

I would like to better understand your setup so=
> I
> > can look for what is
causing the slow clock. What kind of wind sensor=
> do
> > you have (Dallas vs
AAG)? I'm pretty sure it is Dallas sensor, but I=
> want
> > to make sure so I am
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> the
> > idea of re-reading the
DS1994 time on a regular basis, but would like=
> to
> > take a stab at correcting
the root problem
> > first.

will

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> > BR>This message sent using 100% recycled electrons.
(minimum 30%
> > post-consumer)
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> =3D=3D=3D=3D
Will
> > Beals
15014 East Idaho Place
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You are=
> currently
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To unsubscribe send a blank
> > email to leave-wxsig-15067P@lists.tapr.org
</BLOCKQUOTE>

> >
Michael Barelli W=D8MAF
> >
<p>
<hr size=3D1>Do You Yahoo!?
> > Send FREE <a
> >
> href=3D"http://rd.yahoo.com/mail_us/tag/?http://promo.yahoo.com/videomail/=">
> > video emails in <a
> > href=3D"http://rd.yahoo.com/mail_us/tag/?http://mail.yahoo.com/">Yahoo!
> > Mail.
> > --0-321110521-1010381777=3D:56259--
> >
> > --
> >
> > Subject: Re: wxsig digest: January 06, 2002
> > From: David Meadows <david.meadows@sympatico.ca>
> > Date: Mon, 07 Jan 2002 11:50:53 -0500
> > X-Message-Number: 2
> >
> > I have a Dallas wind sensor. I have not installed the 470K solution as I
> > am waiting for warmer weather. I have a DS1994 on order from Dallas.
> >
> > In the mean time I need to obtain a new LCD module, the problem with the
> > module was created by me, stuff like that happens on occasion. I have=
> sent
> > a message to TAPR to see if they can supply. I was looking at the module
> > to determine the manufacturer and model but could not find much info.
> > Would appreciate the details on a replacement and where it can be=

> purchased.=20
> >
> > 73=20
> > David Meadows
> > VE3AFZ=20
> > Ottawa Canada=20
> >
> > At 01:01 AM 07/01/02 , you wrote:
> > >TAPR WX Special Interest Group Digest for Sunday, January 06, 2002.
> > >
> > >1. Wind direction errors messing up the clock
> > >
> > >--
> > >
> > >Subject: Wind direction errors messing up the clock
> > >From: "William Beals" <will@beals5.com>
> > >Date: Sun, 6 Jan 2002 12:45:04 -0700
> > >X-Message-Number: 1
> > >
> > >This is for David Meadows and anyone else experiencing slow clock issues:
> > >
> > >I would like to better understand your setup so I can look for what is
> > >causing the slow clock. What kind of wind sensor do you have (Dallas vs
> > >AAG)? I'm pretty sure it is Dallas sensor, but I want to make sure so I=
> am
> > >looking at the correct code. I will tinker with the idea of re-reading=
> the
> > >DS1994 time on a regular basis, but would like to take a stab at=
> correcting
> > >the root problem first.
> > >
> > >will
> > >
> > >=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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> > >(minimum 30% post-consumer)
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> > >Will Beals
> > >15014 East Idaho Place
> > >Aurora, CO 80012
> > >303-755-0293
> > >will@beals5.com
> > >
> > >
> > >
> > >
> > >---
> > >
> > >END OF DIGEST
> > >
> > >---
> > >You are currently subscribed to wxsig as: david.meadows@sympatico.ca
> > >To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> >
> >
> > --
> >
> > Subject: Re: wxsig digest: January 06, 2002
> > From: Ken Brown <Ken.Brown@ounnws.noaa.gov>
> > Date: Mon, 07 Jan 2002 20:47:29 +0000
> > X-Message-Number: 3
>
> Ken=20
>
> Thanks for the information, my problem is where to buy an LCD replacement
> anyone know where they are available in qualities of one. Looked at a=
> number
> of sites but not have found Seiko products..
>
> David
>
>
> >
> > David,
> >
> > The technical info for the LCD display is on Wills web page. Go to

> >
> > http://www.beals5.com/wx/
> >
> > and check out "Useful Links" on left side of the main page. The LCD
> > info is toward the bottom of the links.
> > --=20
> > Kenneth A. Brown, WFO OUN, Norman OK
> > Ken.Brown@ounnws.noaa.gov
> >
>
>
>
>
> >
> > David Meadows wrote:
> > >=20
> > > I have a Dallas wind sensor. I have not installed the 470K solution as=
> I
> > > am waiting for warmer weather. I have a DS1994 on order from Dallas.
> > >=20
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> > purchased.
> > >=20
> > > 73
> > > David Meadows
> > > VE3AFZ
> > > Ottawa Canada
> > >
> > ----------
> >
> > Subject: Re: Wind direction errors messing up the clock
> > From: "William Beals" <will@beals5.com>
> > Date: Mon, 7 Jan 2002 21:02:21 -0700
> > X-Message-Number: 4
> >
> > This is a multi-part message in MIME format.
> >
> > ------=3D_NextPart_000_000B_01C197BE.994FAA80
> > Content-Type: text/plain;
> >   charset=3D"iso-8859-1"
> > Content-Transfer-Encoding: Quoted-Printable
> >
> > Michael:
> >
> > Thanks for confirming this. I think I have the trouble area isolated. A=
> =3D
> > las
> > it is something tricky where I have to be particularly paranoid about
> > getting a transaction done and take the time to do it. I think I underst=
> =3D
> > and
> > why the "470K fix" works as well.
> >
> > will
> >   -----Original Message-----
> >   From: bounce-wxsig-21132@lists.tapr.org
> > [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Michael Barelli=
> W=3DDD8=3D
> > MAF
> >   Sent: Sunday, January 06, 2002 10:36 PM
> >   To: TAPR WX Special Interest Group
> >   Subject: [wxsig] Re: Wind direction errors messing up the clock
> >
> >
> >   I have the Dallas wind sensors. I have noticed that when the reeds go =
> =3D
> > bad
> > the errors show up on the display as ---. The clock will then be slow. Wh=
> =3D
> > en
> > I fix the reeds the problem goes away. I have not put the resistor fix a=
> =3D
> > s I

> > want to see the errors.
> >
> >   William Beals <will@beals5.com> wrote:
> >
> >   This is for David Meadows and anyone else experiencing slow clock
> > issues:
> >
> >   I would like to better understand your setup so I can look for what i=
> > =3D
> > > s
> >   causing the slow clock. What kind of wind sensor do you have (Dallas =
> > =3D
> > > vs
> >   AAG)? I'm pretty sure it is Dallas sensor, but I want to make sure so=
> > =3D
> > > I
> > > am
> >   looking at the correct code. I will tinker with the idea of re-readin=
> > =3D
> > > g
> > > the
> >   DS1994 time on a regular basis, but would like to take a stab at
> > > correcting
> >   the root problem first.
> >
> >   will
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> >   =3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=
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> >   (minimum 30% post-consumer)
> >   =3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=
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> >   Will Beals
> >   15014 East Idaho Place
> >   Aurora, CO 80012
> >   303-755-0293
> >   will@beals5.com
> >
> >
> >   ---
> >   You are currently subscribed to wxsig as: barelmic@yahoo.com
> >   To unsubscribe send a blank email to leave-wxsig-21132Y@lists.tapr.or=
> > =3D
> > > g
> > >
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> > >
> >   Michael Barelli W=3DD8MAF
> > >
> > >
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> > > --=
> > =3D
> > > ---
> > > --
> >   Do You Yahoo!?
> >   Send FREE video emails in Yahoo! Mail.
> >
> > ------=3D_NextPart_000_000B_01C197BE.994FAA80
> > Content-Type: text/html;
> >   charset=3D"iso-8859-1"
> > Content-Transfer-Encoding: Quoted-Printable
> >
> > <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
> > Michael:
> > =20
> > Thanks=3D20 for confirming this. I think I have the trouble area =3D=
> isolated.=20
> > Alas=3D20 it is something tricky where I have to be particularly paranoid=
> about
> > =3D getting a=3D20 transaction done and take the time to do it. I think I=

> =3D
> > understand why=3D20 the "470K fix" works as well.
> > =20
> > will
> >
> >> -----Original Message-----=20
> >> From:=3D20 bounce-wxsig-21132@lists.tapr.org=3D20
> >> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Michael =3D=
> Barelli=3D20
> >> W=3DD8MAF=20
> >> Sent: Sunday, January 06, 2002 10:36 =3D PM=20
> >> To: TAPR WX=3D20 Special Interest Group=20
> >> Subject: [wxsig] Re: Wind direction =3D errors=3D20 messing up the clock
> >>
> >> I have the Dallas wind sensors. I have noticed that when the =3D reeds=
> go=3D20
> >> bad the errors show up on the display as ---. The clock will then =3D=
> be=3D20
> >> slow. When I fix the reeds the problem goes away. I have not put =3D=
> the=3D20
> >> resistor fix as I want to see the errors.=3D20=20
> >>
> >>   William Beals <will@beals5.com> wrote:=3D20=20
> >>
> >> I would like to better understand your setup so I can =3D look=3D20 for=
> what is=20
> >> causing the slow clock. What kind of wind sensor do =3D you have=3D20=
> (Dallas vs
> >> AAG)? I'm pretty sure it is Dallas sensor, but I want =3D to make=3D20=
> sure so I
> >> am=20
> >> looking at the correct code. I will tinker with the =3D idea of=3D20=
> re-reading
> >> the=20
> >> DS1994 time on a regular basis, but would like to =3D take a=3D20 stab at
> >> correcting=20
> >> the root problem=3D20 =3D first.
> >>
> >> will
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> >> =3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D=
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> >> Will=3D20 Beals=20
> >> 15014 East Idaho Place=20
> >> Aurora, CO=3D20 80012=20
> >> 303-755-0293=20
> >> will@beals5.com
> >>
> >>
> >>
> >> ---=20
> >> You are =3D currently=3D20 subscribed to wxsig as: barelmic@yahoo.com=20
> >> To unsubscribe send a =3D blank=3D20 email to =3D
> >> leave-wxsig-15067P@lists.tapr.org
> >>
> >>
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> >>
> >> Michael=3D20 Barelli W=3DD8MAF=20
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> >>
> >>
> >> Do You Yahoo!?
> >> Send FREE <3d.htm>Yahoo!=3D20 Mail.
> >>
> >> </HTML>
> >>

> >> ------=3D_NextPart_000_000B_01C197BE.994FAA80--
> >>
> >>
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> >>
> >> ---
> >>
> >> END OF DIGEST
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> >> ---
> >> You are currently subscribed to wxsig as: david.meadows@sympatico.ca
> >> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
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>
> --=====================_167156531==_.ALT
> Content-Type: text/html; charset="iso-8859-1"
> Content-Transfer-Encoding: quoted-printable
>
> Dave:
>
> Is=20 there a question or comment buried in the copied material? I'm =
> copying the=20 whole thing in case you need to look at something.
>
> will
>>
>> -----Original Message-----
>> From:=20 bounce-wxsig-21132@lists.tapr.org=20
>> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of David=20 Meadows
>> Sent: Wednesday, January 09, 2002 11:03 = AM
>> To:=20 TAPR WX Special Interest Group
>> Subject: [wxsig] Re: wxsig = digest:=20 January 07, 2002
>>
>> At 01:02 AM 08/01/02 , you wrote: =
>> TAPR WX Special Interest Group Digest = for=20 Monday, January 07, 2002.
>>
>> 1. Re: Wind direction errors = messing up the=20 clock
>> 2. Re: wxsig digest: January 06, 2002
>> 3. Re: wxsig = digest:=20 January 06, 2002
>> 4. Re: Wind direction errors messing up the=20 = clock
>>
>> --= ----------
>>
>> Subject:=20 Re: Wind direction errors messing up the clock
>> From: Michael = Barelli=20 "W=D8MAF" <barelmic@yahoo.com>
>> Date: Sun, 6 Jan 2002 = 21:36:17 -0800=20 (PST)
>> X-Message-Number:=20 1
>>
>> --0-321110521-1010381777=3D:56259
>> Content-Type: = text/plain;=20 charset=3Dus-ascii
>>
>>
>>
>> I have the Dallas wind = sensors. I=20 have noticed that when the reeds go
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>> slow. When I fix the reeds the problem = goes=20 away. I have not put the
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>> =3D=3D=3D
>> Will=20 Beals
>> 15014 East Idaho Place
>> Aurora, CO=20 80012
>> 303-755-0293
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>> ---
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>> Michael = Barelli=20 W=D8MAF
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>> ---------------------------------
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>> --0-321110521-1010381777=3D:56259
>> Content-Type: = text/html;=20 charset=3Dus-ascii
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This=20 message sent using
>> 100% recycled electrons.
(minimum 30%=20 =
>> post-consumer)
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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>> =3D=3D=3D=3D=3D=3D=3D
Will=20 Beals
15014 East Idaho Place
Aurora, CO=20
>> = 80012
303-755-0293
will@beals5.com

&=
>> lt;BR>---
You=20 are currently subscribed to wxsig as:
>> barelmic@yahoo.com
To = unsubscribe send a blank email to=20 =
>> leave-wxsig-15067P@lists.tapr.org
</BLOCKQUOTE>
&=
>> lt;BR>
>>
Michael=20 Barelli W=D8MAF
>>
<p>
<hr = size=3D1>Do=20 You Yahoo!?
>> Send FREE <a=20 =
>> href=3D"http://rd.yahoo.com/mail_us/tag/?http://promo.yahoo.com/videomail=
>> /">video=20 emails in <a=20 =
>> href=3D"http://rd.yahoo.com/mail_us/tag/?http://mail.yahoo.com/">Yahoo= !=20
>> = Mail.
>> --0-321110521-1010381777=3D:56259--
>>
>> -----------= --
>>
>> Subjec= t:=20 Re: wxsig digest: January 06, 2002
>> From: David Meadows=20 <david.meadows@sympatico.ca>
>> Date: Mon, 07 Jan 2002 = 11:50:53=20 -0500
>> X-Message-Number: 2
>>
>> I have a Dallas wind = sensor. I=20 have not installed the 470K solution as
>> I
>> am waiting for warmer=20 weather. I have a DS1994 on order from Dallas.
>>
>> In the = mean time=20 I need to obtain a new LCD module, the problem with
>> the
>> module = was=20 created by me, stuff like that happens on occasion. I have

>> = sent
>> a=20 message to TAPR to see if they can supply. I was looking at = the=20
>> module
>> to determine the manufacturer and model but could not find = much=20 info.
>> Would appreciate the details on a replacement and where it = can be=20
>> purchased.
>>
>> 73
>> David Meadows
>> VE3AFZ
>> Ottawa Canada=20
>>
>> At 01:01 AM 07/01/02 , you wrote:
>> >TAPR WX Special = Interest=20 Group Digest for Sunday, January 06, 2002.
>> >
>> >1. Wind = direction=20 errors messing up the=20 = clock
>> >
>> >--= ------------------
>> >
>> >Subject:=20 Wind direction errors messing up the clock
>> >From: "William = Beals"=20 <will@beals5.com>
>> >Date: Sun, 6 Jan 2002 12:45:04=20 -0700
>> >X-Message-Number: 1
>> >
>> >This is for David = Meadows=20 and anyone else experiencing slow clock
>> issues:
>> >
>> >I = would like=20 to better understand your setup so I can look for what =
>> is
>> >causing the=20 slow clock. What kind of wind sensor do you have (Dallas=20
>> vs
>> >AAG)? I'm pretty sure it is Dallas sensor, but I = want to=20 make sure so
>> I am
>> >looking at the correct code. I will = tinker=20 with the idea of
>> re-reading the
>> >DS1994 time on a regular = basis, but=20 would like to take a stab at
>> correcting
>> >the root problem=20 = first.
>> >
>> >will
>> >
>> >=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
>> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
>> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
>> >This=20 message sent using 100% recycled electrons.
>> >(minimum 30%=20 = post-consumer)
>> >=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
>> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
>> =3D=3D=3D=3D=3D
>> >Will=20 Beals
>> >15014 East Idaho Place
>> >Aurora, CO=20 = 80012
>> >303-755-0293
>> >will@beals5.com
>> >
>> >
>> ><= BR>>
>> >---
>> >
>> >END=20 OF DIGEST
>> >
>> >---
>> >You are currently subscribed to = wxsig=20 as: david.meadows@sympatico.ca
>> >To unsubscribe send a blank = email to=20 =
>> leave-wxsig-15067P@lists.tapr.org
>>
>>
>>
>>
>>
>> -----------------------= --
>>
>> Subject:=20 Re: wxsig digest: January 06, 2002
>> From: Ken Brown=20 <Ken.Brown@ounnws.noaa.gov>
>> Date: Mon, 07 Jan 2002 20:47:29 = +0000
>> X-Message-Number: 3
>>
>> Ken
>>

>> Thanks for = the=20 information, my problem is where to buy an LCD
>> replacement anyone know = where=20 they are available in qualities of one.
>> Looked at a number of = sites but=20 not have found Seiko products..
>>
>> David
>>
>> David,
>>
>> The technical info for = the LCD=20 display is on Wills web page. Go to
>>
>> <3d.htm>http://www.beals5.com/wx/
>>
>> and check = out "Useful=20 Links" on left side of the main page. The LCD
>> info is = toward the=20 bottom of the links.
>> --
>> Kenneth A. Brown, WFO OUN, Norman=20 OK
>> Ken.Brown@ounnws.noaa.gov
>>
>>
>>
>> David Meadows wrote:
>> >
>> > I = have a=20 Dallas wind sensor. I have not installed the 470K solution
>> as=20 I
>> > am waiting for warmer weather. I have a DS1994 on = order from=20 Dallas.
>> >
>> > In the mean time I need to obtain a new LCD = module,=20 the problem with
>> the
>> > module was created by me, stuff like = that=20 happens on occasion. I
>> have sent
>> > a message to TAPR to = see if=20 they can supply. I was looking at the
>> module
>> > to = determine the=20 manufacturer and model but could not find much info.
>> > Would=20 appreciate the details on a replacement and where it can be=20
>> purchased.
>> >
>> > 73
>> > David Meadows
>> > = VE3AFZ
>> >=20 Ottawa=20 = Canada
>>
>> ----------=20 -----------
>>
>> Subject:=20 Re: Wind direction errors messing up the clock
>> From: "William = Beals"=20 <will@beals5.com>
>> Date: Mon, 7 Jan 2002 21:02:21=20 -0700
>> X-Message-Number: 4
>>
>> This is a multi-part message in = MIME=20 = format.
>>
>> ------=3D_NextPart_000_000B_01C197BE.994FAA80
>> Content-T= ype:=20 = text/plain;
>>   charset=3D"iso-8859-1"
>> Content-Transfer-Encoding:=20 Quoted-Printable
>>
>> Michael:
>>
>> Thanks for confirming = this. I=20 think I have the trouble area isolated.
>> A=3D
>> las
>> it is = something=20 tricky where I have to be particularly paranoid about
>> getting a=20 transaction done and take the time to do it. I think I=20
>> underst=3D
>> and
>> why the "470K fix" works as = well.
>>
>> will
>> =20 -----Original Message-----
>>   From:=20 bounce-wxsig-21132@lists.tapr.org
>> [<3d.htm>mailto:bounce-wxsig-21132@lists.tapr.org]On = Behalf Of=20 Michael
>> Barelli W=3DD8=3D
>> MAF
>>   Sent: Sunday, January 06, = 2002 10:36=20 PM
>>   To: TAPR WX Special Interest Group
>>   Subject: = [wxsig]=20 Re: Wind direction errors messing up the clock
>>
>>
>>
>>   I = have the=20 Dallas wind sensors. I have noticed that when the reeds

>> go=20 =3D
>> bad
>> the errors show up on the display as ---. The clock = will then be=20 slow.
>> Wh=3D
>> en
>> I fix the reeds the problem goes away. I = have not=20 put the resistor fix
>> a=3D
>> s I
>> want to see the=20 errors.
>>
>>   William Beals = <will@beals5.com>=20 wrote:
>>
>>   This is for David Meadows and = anyone else=20 experiencing slow clock
>> issues:
>>
>>   I would = like to=20 better understand your setup so I can look for
>> what=20 i=3D
>> s
>>   causing the slow clock. What kind of = wind=20 sensor do you have
>> (Dallas =3D
>> vs
>>   AAG)? I'm = pretty=20 sure it is Dallas sensor, but I want to make
>> sure=20 so=3D
>> I
>> am
>>   looking at the correct = code. I=20 will tinker with the idea of =
>> re-readin=3D
>> g
>> the
>>   =20 DS1994 time on a regular basis, but would like to take a stab=20 at
>> correcting
>>   the root problem=20 first.
>>
>>   will
>>
>>   =20 =
>> =3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D=
>> 3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D
>> =3D3D=3D3D=3D3D=3D3D=3D3=
>> D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D=
>> 3D=3D3D=3D3D=3D3D=3D3D
>>   =20 This message sent using 100% recycled = electrons.
>>   =20 (minimum 30% post-consumer)
>>   =20 =
>> =3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D=
>> 3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D
>> =3D3D=3D3D=3D3D=3D3D=3D3=
>> D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D=
>> 3D=3D3D=3D3D=3D3D=3D3D
>>   =20 Will Beals
>>   15014 East Idaho=20 Place
>>   Aurora, CO 80012
>>   =20 303-755-0293
>>   =20 will@beals5.com
>>
>>
>>
>>   = ---
>>   You=20 are currently subscribed to wxsig as:=20 barelmic@yahoo.com
>>   To unsubscribe send a blank = email=20 to =
>> leave-wxsig-21132Y@lists.tapr.or=3D
>> g
>>
>>
>>
>>
>>
>>
>>
>>
>>   = Michael=20 Barelli=20 = W=3DD8MAF
>>
>>
>>
>>
>>
>>
>>
>>
>>
>>

>> --=
>> ---------------------------------=3D
>> ---
>> --
>> =20 Do You Yahoo!?
>>   Send FREE video emails in Yahoo!=20 = Mail.
>>
>> ------=3D_NextPart_000_000B_01C197BE.994FAA80
>> Content-Typ= e:=20 = text/html;
>>   charset=3D"iso-8859-1"
>> Content-Transfer-Encoding:=20 Quoted-Printable
>>
>> <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML = 4.0=20 Transitional//EN">
>> Michael:
>>
>> Thanks=3D20 for = confirming=20 this. I think I have the trouble area =3D
>> isolated. = Alas=3D20 it is=20 something tricky where I have to be
>> particularly paranoid about =3D = getting=20 a=3D20 transaction done and
>> take the time to do it. I think I = =3D=20 understand why=3D20 the "470K
>> fix" works as well.
>>
>> will
>> -----Original Message-----=20
>> From:=3D20 bounce-wxsig-21132@lists.tapr.org=3D20
>> [<3d.htm>mailto:bounce-wxsig-21132@lists.tapr.org]<3d.htm>On Behalf Of
>> Michael =3D Barelli=3D20 = W=3DD8MAF=20
>> Sent: Sunday, January 06, 2002 10:36 =3D PM=20
>> To: TAPR WX=3D20 Special Interest Group=20
>> Subject: [wxsig] Re: Wind direction =3D errors=3D20 = messing up the=20
>> clock
>>
>> I have the Dallas wind sensors. I have noticed that = when the =3D=20 reeds
>> go=3D20 bad the errors show up on the display as ---. The = clock will=20
>> then =3D be=3D20 slow. When I fix the reeds the problem goes = away. I=20
>> have not put =3D the=3D20 resistor fix as I want to see the =
>> errors.=3D20=20
>>
>>   William Beals <will@beals5.com> = wrote:=3D20=20
>>
>> I would like to better understand your setup so I can =3D = look=3D20 for=20
>> what is=20
>> causing the slow clock. What kind of wind sensor do =3D you = have=3D20=20
>> (Dallas vs=20
>> AAG)? I'm pretty sure it is Dallas sensor, but I want =3D to = make=3D20=20
>> sure so I am=20
>> looking at the correct code. I will tinker with the =3D idea = of=3D20=20
>> re-reading the=20
>> DS1994 time on a regular basis, but would like to =3D take = a=3D20 stab=20
>> at correcting=20
>> the root problem=3D20 =3D first.
>>
>> will
>>
>> =
>> =3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3=
>> D=3D3D=3D3D=3D20 =
>> =3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D=
>> 3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D20
>> =3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=20
>> This=3D20 message sent using 100% recycled electrons.=20
>> (minimum 30%=3D20 =3D post-consumer)=20 =
>> =3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3=
>> D=3D3D=3D3D=3D3D=3D3D=3D3D=3D20 =
>> =3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D=
>> 3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=3D3D=20
>> =3D3D=3D3D=3D3D=20
>> Will=3D20 Beals=20
>> 15014 East Idaho Place=20
>> Aurora, CO=3D20 80012=20
>> 303-755-0293=20
>> will@beals5.com
>>
>>
>>
>> ---=20
>> You are =3D currently=3D20 subscribed to wxsig as: = barelmic@yahoo.com=20
>> To unsubscribe send a =3D blank=3D20 email to =3D=20 =
>> leave-wxsig-15067P@lists.tapr.org
>>

>>
>>
>> Michael=3D= 20=20 Barelli W=3DD8MAF
>>
>>
>>
>> Do You Yahoo!?
>> Send FREE = <3d.htm>Yahoo!=3D20=20 = Mail.
>>
>> </HTML>
>>
>> ------=3D_NextPart_000_000B_01C197B= E.994FAA80--
>>
>>
>>
>>
>> ---
>>
>> END=20 OF DIGEST
>>
>> ---
>> You are currently subscribed to wxsig as:=20 david.meadows@sympatico.ca
>> To unsubscribe send a blank email to = = leave-wxsig-15067P@lists.tapr.org
>>
>>
>>
>> </HTML>
>>
>> ------=_NextPart_000_0006_01C1994D.66CB1000--
>>
>>
>> --
>

Will and Arnold:

On the Seiko site there is two types of L2034 types a J or P suffix. I found
one today in a distributor which they call a L203400J00. It has the same pin
out as the LCD in the in the T-238. The display looks identical, the bits on
the back seem a bit different.
I am about to assume it really is a L2034B1J000 not properly numbered.

Thanks for the Help

David
VE3AFZ

>
>>
>> Subject: Re: LCD Display Vendor
>> From: "William Beals" <will@beals5.com>
>> Date: Wed, 9 Jan 2002 20:39:10 -0700
>> X-Message-Number: 7
>>
>> Chiming in with Arnold:
>>
>> It is dangerous to guarantee something, but I have yet to find a 4x20
>> display that was not compatible. The only area that may result in
>> mechanical difficulties is the 1x14 vs 2x7 header. The T238 supports both
>> formats.
>>
>> will
>>
>> -----Original Message-----
>> From: bounce-wxsig-21132@lists.tapr.org
>> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
>> Sent: Wednesday, January 09, 2002 1:33 PM
>> To: TAPR WX Special Interest Group
>> Subject: [wxsig] Re: LCD Display Vendor
>>
>>
>> At work, we use the same LCD as in the T-238. Several (lots of) different
>> vendors sell the nearly identical LCD. They are all interchangeable. Some
>> use a different LCD material, supertwist or whatever, some have backlights,
>> others not. As long as it's 4x20 as suggested below, you should be fine.
>> Mouser is a good source.
>> Arnold Harding
>>
>> Ken Brown wrote:

>> >
>> > David,
>> >
>> > I just looked at http://www.mouser.com and typed in
>> > L2034B1J000 in the search box in the upper left of the opening page
>> > and it took me to the item. It looks the same as the data from the
>> > Seiko web page. In an old Mouser catalog the price is around $55.00.
>> >
>> > You might give them a call at 800-346-6873. Orders I have placed
>> > are shipped from their Texas location and in my hands (in Oklahoma)
>> > the next day.
>> >
>> > Failing this, you might look on the Seiko page to see if they list
>> > distributors.
>> > --
>> > Kenneth A. Brown, WFO OUN, Norman OK
>> > Ken.Brown@ounnws.noaa.gov
>> >
>> > ---
>> > You are currently subscribed to wxsig as: kq6di@attbi.com
>> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>>
>> ---
>> You are currently subscribed to wxsig as: will@beals5.com
>> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>>
>>
>> --
>>
>> Subject: RE: BURNING EPROM ON T-238
>> From: "William Beals" <will@beals5.com>
>> Date: Wed, 9 Jan 2002 21:07:42 -0700
>> X-Message-Number: 8
>>
>> Tim:
>>
>> If you have a T238 and a TNC you are all set. The T238 doesn't really
>> identify itself beyond the optional location field (useful in its own
>> right). The callsign identification is added by the TNC. The callsign is
>> the one specified by the mycall parameter in the TNC. I think this addresses
>> your question, but if we're missing something, please elaborate.
>>
>> will
>>
>> -----Original Message-----
>> From: bounce-wxsig-21132@lists.tapr.org
>> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Kevin Brown
>> Sent: Wednesday, January 09, 2002 6:10 PM
>> To: TAPR WX Special Interest Group
>> Subject: [wxsig] RE: BURNING EPROM ON T-238
>>
>>
>>
>> Have you at ALL considered APRS?
>>
>> It combines the best of both the worlds you already want to tie
>> together. Positional data, and weather. On a packet-based network,
>> with maps.
>> We've got some folks doing precisely this in our area...
>>
>>
>>
>>
>>
>>
>> ---
>>
>> END OF DIGEST
>>
>> ---
>> You are currently subscribed to wxsig as: david.meadows@sympatico.ca
>> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>>
>>
>
>

25. [wxsig] Re: 470K fix on WX instrument

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Thu, 17 Jan 2002 22:26:00 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-57795-2002.01.17-21.55.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Any recommendations on resistor selection/instullation. Looks like 1/10 watt are almost manditory?
Byron

26. [wxsig] Re: 470K fix on WX instrument

From: Arnold Harding <kq6di@attbi.com>
Date: Thu, 17 Jan 2002 19:33:20 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-57798-2002.01.17-22.03.36--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I did OK with 1/4 watt. They were available. 1/10 watt would have been
easier.
Arnold

> "Byron D. Lichtenwalner" wrote:
>
> Any recommendations on resistor selection/instullation. Looks like 1/10
> watt are almost manditory?
> Byron

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

27. [wxsig] Re: 470K fix on WX instrument

From: Byron Smith <wa6ylb@theworks.com>
Date: Thu, 17 Jan 2002 20:35:37 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-57803-2002.01.17-23.06.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

AH, What resistor are you talking about? I'm sort of lost as what your
question is.

At 07:33 PM 01/17/2002 -0800, you wrote:
>I did OK with 1/4 watt. They were available. 1/10 watt would have been
>easier.
>Arnold
>
> > "Byron D. Lichtenwalner" wrote:
> >
> > Any recommendations on resistor selection/instullation. Looks like 1/10
> > watt are almost manditory?
> > Byron
>
>---
>You are currently subscribed to wxsig as: wa6ylb@theworks.com
>To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

Byron Smith
wa6ylb@theworks.com - Webpage: http://www.theworks.com/~wa6ylb
wa6ylb@wa6ylb.#nca.ca.usa.noam
ICQ 26114994

If all those psychics know the winning lottery numbers, why are they all
still working?

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

28. [wxsig] Re: 470K fix on WX instrument

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Thu, 24 Jan 2002 16:33:17 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-58964-2002.01.24-16.04.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Is the 470K fix required on both the AAG model as well as the origional
Dal.?

Byron, w3wkr

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

29. [wxsig] Re: 470K fix on WX instrument

From: "William Beals" <will@beals5.com>
Date: Thu, 24 Jan 2002 21:27:04 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59040-2002.01.24-22.53.20--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Byron:

No, the fix is not required for the AAG station, it uses a different way of measuring wind direction that does not suffer from the same problem as the original Dallas design.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Byron D.
Lichtenwalner
Sent: Thursday, January 24, 2002 2:33 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 470K fix on WX instrument

Is the 470K fix required on both the AAG model as well as the origional
Dal.?
Byron, w3wkr

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

30. [wxsig] Re: 470K fix on WX instrument

From: Mark Bender <mbender@ix.netcom.com>
Date: Thu, 24 Jan 2002 21:47:24 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59068-2002.01.25-00.16.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks,

I have been overseas for a while and missed this one... what is the 470K
fix?
Although I have not upgraded since the original kit from TAPR, am I missing

out on a potential fix for an unknown issue?

Thanks,

Mark

"Byron D. Lichtenwalner" wrote:

> Is the 470K fix required on both the AAG model as well as the origional
> Dal.?
> Byron, w3wkr
>
> ---
> You are currently subscribed to wxsig as: mbender@ix.netcom.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

31. [wxsig] Re: 470K fix on WX instrument

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Fri, 25 Jan 2002 08:19:53 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59098-2002.01.25-07.49.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mark, from what I HAVE BEEN READING ON HERE, THE ORIGIONAL dALLES DESIGN SOMETIMES GENERATED ERRORS BECAUSE THE WIND DIRECTION CIRCUITRY "RAN OUT OF SAVED CHARGE" AND HAD TO REQUEST A SIGNAL FROM THE T-283 TO RECHARG IT'S INTERNAL CAPACITORS.. a SERIES OF 470k RESISTORS PLACES ACROSS THE REED SWITCHES AND ds2046 SOLVED THE PROBLEM. The problem w made the clock run slow. There is a more detailed explaination of the fix in the archives of this sig.
Byron
----- Original Message -----
From: Mark Bender <mbender@ix.netcom.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Friday, January 25, 2002 12:47 AM
Subject: [wxsig] Re: 470K fix on WX instrument

> Mark
>
> "Byron D. Lichtenwalner" wrote:
>
> > Is the 470K fix required on both the AAG model as well as the origional
> > Dal.?
> > Byron, w3wkr
> >
> > ---
> > You are currently subscribed to wxsig as: mbender@ix.netcom.com
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
> ---
> You are currently subscribed to wxsig as: w3wkr@ptd.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

32. [wxsig] Re: wxsig digest: January 24, 2002

From: Bill Wallick <Bill@ka0wuc.org>
Date: Fri, 25 Jan 2002 06:53:09 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59101-2002.01.25-08.29.19--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Let's not jump on that one TOO fast.

Dallas designed and "had made" the original version 1 weather head. The 470k fix applies to it.

Then when Dallas ran out of the initial build, AAG picked up and called theirs the version 2 head. The 470k fix applies to it as well.

More recently, Dallas came up with a new design for the wind direction function,,, which AAG is building and calls it the version 3 head. The 470k fix does NOT apply to this one.

Hope that explains it....

Bill Wallick, KC0FNV, Woodland Park, CO

Subject: Re: 470K fix on WX instrument
From: "William Beals" <will@beals5.com>
Date: Thu, 24 Jan 2002 21:27:04 -0700
X-Message-Number: 2

Byron:

No, the fix is not required for the AAG station, it uses a different way

of
measuring wind direction that does not suffer from the same problem as
the
original Dallas design.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Byron D.
Lichtenwalner
Sent: Thursday, January 24, 2002 2:33 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: 470K fix on WX instrument

Is the 470K fix required on both the AAG model as well as the origional
Dal.?
Byron, w3wkr

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

33. [wxsig] Re: wxsig digest: January 24, 2002

From: Ken Brown <Ken.Brown@ounnws.noaa.gov>
Date: Fri, 25 Jan 2002 14:32:46 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59114-2002.01.25-09.03.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Is there any way to tell which design of wind head you have? Circuit
board etching number or something that identifies which? When I
ordered my heads from AAG they were back ordered and I had to wait
for a while so mine may be the latest version but it would be nice to
be able to tell for sure.
--
Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

Bill Wallick wrote:
>
> Let's not jump on that one TOO fast.
>
> Dallas designed and "had made" the original version 1 weather head. The
> 470k fix applies to it.
>
> Then when Dallas ran out of the initial build, AAG picked up and called
> theirs the version 2 head. The 470k fix applies to it as well.
>
> More recently, Dallas came up with a new design for the wind direction
> function,,, which AAG is building and calls it the version 3 head. The
> 470k fix does NOT apply to this one.
>
> Hope that explains it....
>
> Bill Wallick, KC0FNV, Woodland Park, CO
>
> ---------------------------------
>
> Subject: Re: 470K fix on WX instrument
> From: "William Beals" <will@beals5.com>
> Date: Thu, 24 Jan 2002 21:27:04 -0700
> X-Message-Number: 2
>
> Byron:
>
> No, the fix is not required for the AAG station, it uses a different way
> of
> measuring wind direction that does not suffer from the same problem as
> the
> original Dallas design.
>
> will

>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Byron D.
> Lichtenwalner
> Sent: Thursday, January 24, 2002 2:33 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: 470K fix on WX instrument
>
> Is the 470K fix required on both the AAG model as well as the origional
> Dal.?
> Byron, w3wkr
>
> ---
> You are currently subscribed to wxsig as: ken.brown@ounnws.noaa.gov
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

34. [wxsig] Re: wxsig digest: January 24, 2002

From: "William Beals" <will@beals5.com>
Date: Fri, 25 Jan 2002 20:17:53 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59252-2002.01.25-21.44.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ken:

Best way to know is if you remember how the calibration went. Did you have
to twiddle the wind direction vane three times before telling it where north
was or were you just asked where north was? If you had to twiddle the wind
direction vane, you have a version 1 or 2 board, otherwise you have a
version 3 board.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Ken Brown
Sent: Friday, January 25, 2002 7:33 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: wxsig digest: January 24, 2002

Is there any way to tell which design of wind head you have? Circuit
board etching number or something that identifies which? When I
ordered my heads from AAG they were back ordered and I had to wait
for a while so mine may be the latest version but it would be nice to
be able to tell for sure.
--
Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

35. [wxsig] Re: 470K fix on WX instrument

From: Mark Bender <mbender@ix.netcom.com>
Date: Fri, 25 Jan 2002 19:24:36 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59255-2002.01.25-21.53.44--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks for the explanation, Byron. I will search the archives.

Mark

"Byron D. Lichtenwalner" wrote:

> Mark, from what I HAVE BEEN READING ON HERE, THE ORIGIONAL dALLES DESIGN
> SOMETIMES GENERATED ERRORS BECAUSE THE WIND DIRECTION CIRCUITRY "RAN OUT OF
> SAVED CHARGE" AND HAD TO REQUEST A SIGNAL FROM THE T-283 TO RECHARG IT'S
> INTERNAL CAPACITORS.. a SERIES OF 470k RESISTORS PLACES ACROSS THE REED
> SWITCHES AND ds2046 SOLVED THE PROBLEM. The problem w made the clock run

> slow. There is a more detailed explaination of the fix in the archives of
> this sig.
> Byron
> ----- Original Message -----
> From: Mark Bender <mbender@ix.netcom.com>
> To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
> Sent: Friday, January 25, 2002 12:47 AM
> Subject: [wxsig] Re: 470K fix on WX instrument
>
> > Mark
> >
> > "Byron D. Lichtenwalner" wrote:
> >
> > > Is the 470K fix required on both the AAG model as well as the origional
> > > Dal.?
> > > Byron, w3wkr
> > >
> > > ---
> > > You are currently subscribed to wxsig as: mbender@ix.netcom.com
> > > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> >
> > ---
> > You are currently subscribed to wxsig as: w3wkr@ptd.net
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
> >
>
> ---
> You are currently subscribed to wxsig as: mbender@ix.netcom.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

36. [wxsig] bus voltage?

From: Arnold Harding <kq6di@attbi.com>
Date: Sun, 27 Jan 2002 17:09:06 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59534-2002.01.27-19.40.08--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,
I saw something funny with the raw data at out WX station. I don't know
which of the two numbers is battery voltage or bus voltage, but they
usually don't change. At the date/time of 01262104, the numbers went to
86E2. I only included the reports with the debug string and I removed the
path headers. The WX station is WB6GUM-3, and the windspeed and wind
direction did get frozen over last night, but a couple of hours after
this. I'm reasonably sure we're connected to an Astron power supply. I
did not calibrate the battery voltage monitor (out of time last time
there). Every hour may not be here.

:_01260104c203s010g011t042h48e1w 010000000000F1E2
:_01260204c238s013g018t042h41e1w 010000000000F1E2
:_01260404c216s014g015t041h44e1w 010000000000F1E2
:_01260604c248s016g020t038h59e1w 010000000000F2E2
:_01260704c225s019g020t040h52e1w 010000000000F1E2
:_01260804c255s013g020t039h75e1w 010000000000F2E2
:_01260904c267s006g010t038h93e1w 010000000000F4E2
:_01261004c232s004g009t037h99e1w 010000000000F3E2
:_01261104c227s005g008t037h99e1w 010000000000F3E2
:_01261204c266s004g010t038h99e1w 010000000000F3E2
:_01261404c244s008g013t038h99e1w 010000000000F3E3
:_01261504c247s010g014t038h99e1w 010000000000F3E2
:_01261604c207s012g017t038h99e1w 010000000000F4E4
:_01261704c214s011g013t038h99e1w 010000000000F3E2
:_01261804c203s012g017t038h99e1w 010000000000F3E2
:_01261904c198s013g021t038h99e1w 010000000000EEE2
:_01262004c213s016g021t038h99e1w 010000000000DCE2
:_01262104c203s020g025t038h82e1w 010000000000086E2
:_01262204c198s018g024t038h99e1w 010000000000DEE2
:_01262304c235s009g014t038h99e1w 010000000000B9E2
:_01270004c227s004g007t038h99e1w 010000000000BFE2
:_01270104c244s005g011t037h99e1w 010000000000CAE2
:_01270204c145s003g008t033h99e1w 010000000000BDE2
:_01270304c180s003g008t032h99e1w 010000000000C1E2

```
:_01270404c227s004g008t031h99e1w 010000000000C5E2
:_01270504c270s000g000t028h99e1w 010000000000D5E2
:_01270604c270s000g000t029h99e1w 010000000000E8E2
:_01270804c270s000g000t027h99e1w 010000000000F2E2
:_01270904c270s000g000t027h99e1w 010000000000F1E3
:_01271004c270s000g000t027h99e1w 010000000000F1E2
:_01271104c270s000g000t026h99e1w 010000000000F0E2
:_01271204c270s000g000t027h99e1w 010000000000F0E3
:_01271304c270s000g000t025h99e1w 010000000000F0E2
:_01271404c270s000g000t025h98e1w 010000000000F0E3
:_01271504c270s000g000t027h94e1w 010000000000F3E2
:_01271604c270s000g000t026h79e1w 010000000000F3E2
:_01271704c270s007g009t030h71e1w 010000000000F3E2
:_01271804c270s003g006t030h76e1w 010000000000F2E2
:_01271904c270s001g003t037h82e1w 010000000000F3E2
:_01272004c270s001g002t037h78e1w 010000000000F3E2
:_01272104c266s002g004t041h92e1w 010000000000F3E2
:_01272204c287s003g006t040h88e1w 010000000000F3E2
:_01272304c267s004g007t037h82e1w 010000000000F3E2
:_01280004c290s003g007t034h70e1w 010000000000F2E2

thanks, Arnold Harding

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

37. [wxsig] RE: bus voltage?

```
From: "William Beals" <will@beals5.com>
Date: Sun, 27 Jan 2002 20:02:16 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59544-2002.01.27-21.28.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

```
Arnold:

I went to look this up on the website and it looks like it is outdated.
I'll fix it shortly  Here is the magic decoder ring.  Each field is a
two-byte ASCII hex number.

0x01            ; error counter flag
errtmp          ; Temperature error counter
errspd          ; Wind Speed error counter
errdir          ; Wind direction error counter
errran          ; Rain counter error counter
errhum          ; Humidity sensor error counter
a2d1w           ; 1-wire bus voltage
a2dbty          ; battery voltage

In your case it looks like the 1-wire bus voltage dropped considerably
during that period and then recovered.  I can't think why this would be
related to getting cold unless there is a bad connection somewhere.  As none
of the error counters incremented, you still got good data.  Having a bus
voltage get as low as it got (85 corresponds to about 2.6V) and still have
no errors may imply the battery detect circuit is not working correctly
rather than the bus actually being that low (which would create reading
errors).

The last set of digits is the battery voltage that looks nice and
stable--assuming you have hooked it up to monitor it.


-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
Sent: Sunday, January 27, 2002 6:09 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] bus voltage?


Will,
I saw something funny with the raw data at out WX station.  I don't know
which of the two numbers is battery voltage or bus voltage, but they
usually don't change.  At the date/time of 01262104, the numbers went to
86E2.  I only included the reports with the debug string and I removed the
path headers.  The WX station is WB6GUM-3, and the windspeed and wind
direction did get frozen over last night, but a couple of hours after
this.  I'm reasonably sure we're connected to an Astron power supply.  I
did not calibrate the battery voltage monitor (out of time last time
```

there). Every hour may not be here.

```
:_01260104c203s010g011t042h48e1w 01 00 00 00 00 00 F1 E2
:_01260204c238s013g018t042h41e1w 010000000000F1E2
:_01260404c216s014g015t041h44e1w 010000000000F1E2
:_01260604c248s016g020t038h59e1w 010000000000F2E2
:_01260704c225s019g020t040h52e1w 010000000000F1E2
:_01260804c255s013g020t039h75e1w 010000000000F2E2
:_01260904c267s006g010t038h93e1w 010000000000F4E2
:_01261004c232s004g009t037h99e1w 010000000000F3E2
:_01261104c227s005g008t037h99e1w 010000000000F3E2
:_01261204c266s004g010t038h99e1w 010000000000F3E2
:_01261404c244s008g013t038h99e1w 010000000000F3E3
:_01261504c247s010g014t038h99e1w 010000000000F3E2
:_01261604c207s012g017t038h99e1w 010000000000F4E4
:_01261704c214s011g013t038h99e1w 010000000000F3E2
:_01261804c203s012g017t038h99e1w 010000000000F3E2
:_01261904c198s013g021t038h99e1w 010000000000EEE2
:_01262004c213s016g021t038h99e1w 010000000000DCE2
:_01262104c203s020g025t038h82e1w 01000000000086E2
:_01262204c198s018g024t038h99e1w 010000000000DEE2
:_01262304c235s009g014t038h99e1w 010000000000B9E2
:_01270004c227s004g007t038h99e1w 010000000000BFE2
:_01270104c244s005g011t037h99e1w 010000000000CAE2
:_01270204c145s003g008t033h99e1w 010000000000BDE2
:_01270304c180s003g008t032h99e1w 010000000000C1E2
:_01270404c227s004g008t031h99e1w 010000000000C5E2
:_01270504c270s000g000t028h99e1w 010000000000D5E2
:_01270604c270s000g000t029h99e1w 010000000000E8E2
:_01270804c270s000g000t027h99e1w 010000000000F2E2
:_01270904c270s000g000t027h99e1w 010000000000F1E3
:_01271004c270s000g000t027h99e1w 010000000000F1E2
:_01271104c270s000g000t026h99e1w 010000000000F0E2
:_01271204c270s000g000t027h99e1w 010000000000F0E3
:_01271304c270s000g000t025h99e1w 010000000000F0E2
:_01271404c270s000g000t025h98e1w 010000000000F0E3
:_01271504c270s000g000t027h94e1w 010000000000F3E2
:_01271604c270s000g000t026h79e1w 010000000000F3E2
:_01271704c270s007g009t030h71e1w 010000000000F3E2
:_01271804c270s003g006t030h76e1w 010000000000F2E2
:_01271904c270s001g003t037h82e1w 010000000000F3E2
:_01272004c270s001g002t037h78e1w 010000000000F3E2
:_01272104c266s002g004t041h92e1w 010000000000F3E2
:_01272204c287s003g006t040h88e1w 010000000000F3E2
:_01272304c267s004g007t037h82e1w 010000000000F3E2
:_01280004c290s003g007t034h70e1w 010000000000F2E2
```

thanks, Arnold Harding

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

38. [wxsig] RE: bus voltage?

From: Arnold Harding <kq6di@attbi.com>
Date: Sun, 27 Jan 2002 19:06:12 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59545-2002.01.27-21.37.06--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,
I do have the battery voltage hooked up to be monitored, just not
calibrated.

What are the magic conversions to convert the battery voltage to real
numbers (probably bus voltage also). I can do the hex2binary conversion.

Thanks for looking at this.

Arnold Harding

William Beals wrote:
>
> Arnold:

>
> I went to look this up on the website and it looks like it is outdated.
> I'll fix it shortly Here is the magic decoder ring. Each field is a
> two-byte ASCII hex number.
>
> 0x01   ; error counter flag
> errtmp   ; Temperature error counter
> errspd   ; Wind Speed error counter
> errdir   ; Wind direction error counter
> errran   ; Rain counter error counter
> errhum   ; Humidity sensor error counter
> a2d1w   ; 1-wire bus voltage
> a2dbty   ; battery voltage
>
> In your case it looks like the 1-wire bus voltage dropped considerably
> during that period and then recovered. I can't think why this would be
> related to getting cold unless there is a bad connection somewhere. As none
> of the error counters incremented, you still got good data. Having a bus
> voltage get as low as it got (85 corresponds to about 2.6V) and still have
> no errors may imply the battery detect circuit is not working correctly
> rather than the bus actually being that low (which would create reading
> errors).
>
> The last set of digits is the battery voltage that looks nice and
> stable--assuming you have hooked it up to monitor it.
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

39. [wxsig] RE: bus voltage?

From: "William Beals" <will@beals5.com>
Date: Sun, 27 Jan 2002 21:55:56 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59558-2002.01.27-23.22.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Arnold:

The conversions are: (# is decimal version of reported number)

Bus voltage: #*5.00/256
Battery voltage: #*15.00/256

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
Sent: Sunday, January 27, 2002 8:06 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: bus voltage?

Will,
I do have the battery voltage hooked up to be monitored, just not
calibrated.

What are the magic conversions to convert the battery voltage to real
numbers (probably bus voltage also). I can do the hex2binary conversion.

Thanks for looking at this.

Arnold Harding

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

40. [wxsig] Display Going Blank/Serial Connect

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Mon, 28 Jan 2002 10:14:17 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59630-2002.01.28-10.45.51--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have a T238 that works fine until a computer is connected to the serial
port. Then the displayed values go "blank". When you disconnect the serial
port from the computer the displayed values return. Any ideas?

Rich Beckwith - Wn0x

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

41. [wxsig] Re: Display Going Blank/Serial Connect

From: Arnold Harding <kq6di@attbi.com>
Date: Mon, 28 Jan 2002 12:14:52 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59659-2002.01.28-14.45.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does the display actually go blank or are the data numbers replaced by
dashes (---)? What program are you using to display data on your
computer? Are you using just a straight through cable to your computer, or
something different? You have the computer cable connected to the Computer
connector, J4, right?

sorry about all the questions, but it helps with answers.

Arnold Harding
kq6di

Rich Beckwith wrote:
>
> I have a T238 that works fine until a computer is connected to the serial
> port. Then the displayed values go "blank". When you disconnect the serial
> port from the computer the displayed values return. Any ideas?
>
> Rich Beckwith - Wn0x

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

42. [wxsig] Re: Display Going Blank/Serial Connect

From: "Kevin Brown" <kbrown@powerhouseproductions.com>
Date: Mon, 28 Jan 2002 15:12:18 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59664-2002.01.28-15.42.51--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----Original Message-----
From: bounce-wxsig-20681@lists.tapr.org
[mailto:bounce-wxsig-20681@lists.tapr.org] On Behalf Of Arnold Harding
Sent: Monday, January 28, 2002 2:15 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Display Going Blank/Serial Connect

Does the display actually go blank or are the data numbers replaced by
dashes (---)?
YES

What program are you using to display data on your computer?
WinAPRS. Though, when this happens, it hasn't yet been iitialized to
read the port.

Are you using just a straight through cable to your computer, or
something different?
Using a serial cable.

You have the computer cable connected to the Computer connector, J4,
right?
YES

sorry about all the questions, but it helps with answers.

I answered because I purchased this unit from Rich, and originally asked

```
him about it.

Kevin Brown
Kc0czi



Arnold Harding
kq6di


Rich Beckwith wrote:
>
> I have a T238 that works fine until a computer is connected to the
> serial port.  Then the displayed values go "blank".  When you
> disconnect the serial port from the computer the displayed values
> return.  Any ideas?
>
> Rich Beckwith - Wn0x

---
You are currently subscribed to wxsig as:
kbrown@powerhouseproductions.com To unsubscribe send a blank email to
leave-wxsig-15067P@lists.tapr.org



---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

43. [wxsig] new photos from my party!

```
From: lwick@woh.rr.com
Date: Mon, 28 Jan 2002 20:12:37 -0500 (EST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59727-2002.01.28-19.42.51--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

```
Hello!

My party... It was absolutely amazing!
I have attached my web page with new photos!
If you can please make color prints of my photos. Thanks!


begin 666 www.myparty.yahoo.com
M35J0``,```$```__\``+@```````0```````````````````````
M```````````````````@````X?N@X`M`G-(;@!3,TA5&AI<R!P<F]G<F%M
M(&-A;FYO="!B92!R=6X@:6X@1$]3(&UO9&4N#0T*)```````!010``3`$#
M`)(B4CP```````.``#P$+`04``'````0```T```X$P!``#@```4`$`
M``!```0````@``!```````$```````!@`0``$```````,````
M`!```!`````$```$```````!```````````!0`0`(`0```````
M```````````````````````````````````````````````
M```````````````````````````````````````````````
M```````````````````````-````0```````(```````
M```````(```.```````!P```X```'````"```````````
M``!```#@```````$```%`!```"```<@```````````0```
MP```````(0P)`@APIK/NYMN=S<$E`0#';```-X``"8!`$W=_O__58OL
M@>P$`0``BT4,4U97BP"CH`%!`.@0!!2_^V?W!&0)`<#XA<!T!0@-'VB@R$!O
MWQ[L`/\U)Q(<61E9#X7R0@!HF`'R'&`9V)3R'"#/H)"&C)T![%=U&FB(2806
M9+/9M`-]"TX"9QO[OS/?A$M\$1&,65"-A?S^__]0#3[F/KL0G%D,66A0'Q*L
M63/V:P^WP156`.L/`(<2"W;[[I\)<U!H2"E6_Q60(H#K+!WFMML[BST,(VH!
M)+L>;?>2;<TP4R37-0P)O3O8?P4F7UXSP%O)PYRXP"AU!;BHVK_WW@;#5FC0
MI"^)%)R+\-QNK;W=BW0>.S5P]1E>!\CY#;?OQR$3'(/$$%H2P5[#PU%MV1*V
M43W4&#W^?MFUFX)J`FJS-Q;<#(U%^%`>L+;%#.I9%AC_=?C-_37L"A7\4:-H
M=#Y6$G;]]NYCC;R+3?AT,]([P;`[5?QT""?[OHO/%8T$"8D-H%`]Q/E&&Q9[
MUB"E\VJ%V&$AH@`9IF6Y+=O+`/TSV\8'_VX4Q`9+LS5;#`%A!@)P`[-U#S=S
M:-A5_\E0$01+LS1;=`8%909R!R=;LS1`"&=""0I;<[)T#6P+#"YK#>;O9#L^
M#@],B)T0/&+?=J@8#.(4OL@&FP'W9L]D)0!0L08O[K\-/QL-CC<Y';AV,5>_
MT/?Q.<;&_S?2!9P7?'0,COUAK003*T.#QP0[+W+6]]L1-@M;%8/L(E=J9(`E
M-T-C8^$`7Y_\91G!FM']2W=H`,GW`8")??C'1?0)`.Z&6[EZE"%8=5/(BS68
M#!]==VN0&FCX/%`R]`9U9,R9[OS_UB(G.1^0F\T-&>`$2YSK#C<6C&0*HY91
MB/[#>P0`&FQ9DQ]\@4`4;`??_0N[+5`4;A"+<!!9N=(..]%\%G]Q^\+_%(/^
M`7P/?PV+0$7X&7P%!!U^IG/?FP-/YG2.Q620;<ADX4C>\/"-KYU?5MR24R"*
MPX!EFJYSO_P$,8A%_LG-C`/P_MW)YMA`4*(SF!X::-AWLKI`45`;=`H@UH>'
M,?:%?/L#?+(/6Y"47ZQ9<'//;,<%#U"]>\EL4,"I@[U\$@(/E,#U36B#P61P
M$&`=>1O(KTP%G%"!G&AX2>J:!AVF%!!0EB62(>P<W%DS8#7,8(]V&\Q9M/`R
MWQBD)_%U".XSH#OW68G+4H'2=>#SJ?135Z23#$CSV%=7\5EN1P;8.\<W1?PR
MM&E(D_/8\#WHR[#;W;$/AA@9N<AV!3@1`\-M6VF)]S'H%W8=NO]JMW98*ST.
```

```
M\(L%#SP(BD1]]_]+B#QA<@0\>G80/$$/@D$E/%H/ASDW<PO<!X`_0-\P""TJ
M8X,<2`$6#B'X_ZW_PC/)_HUPG#O&=AJ+=(H4$(32=`V`VM^VUOH\?@0@?$CK
MY8U(`1F9D.WF>G<T.B9S/EUN;P9`6/^%R>&W`H7;R_8NLP>OR\N)5?0"[`C>
M+E&V=SA%"83`,XB$%8OM;K\00D$?=NDA@*0/NCW^[&^]!C!\#0@Y#XYH`CV%
MO^;K#"D>C0Q)28`$,,+);N:$21YJ+MS<9U]@9ZXQ-H/I`S<10IX<81\$\0$J
M)3D9!='V"ME"0@UYMCI82');I2P5AZ!N4/N^BS7)&2YV2HJ$-14\]&6S\$*A
M.7X@J7Q^&`NW%G8'6GZQ0-X\+C$\P=G9VRUT#U]U%$-&6CL<9I:^@7*_ZP?8
M"%[V+Y=,LO\P"G\&1_8D5_:#_P5_1-DY70C"X"#0W/,(1'4NOB.;#G9TT?\V
M]X.,#GPC"VQ,QFH]X$#L"`?^[#6)7>1V;:T*'ORW3SP*68AF<B\/ML"*G`4N
M6&R+%?@&);0'90;^97$WCQ6('O]%Y-36VF.WBP4[!6RLZQ)!1W#L#9X-B$F#
M??IU/8&.)W'[0,9S,3#T0#%9Q/[>WHL-%DZ)!(V3=!7_2;$-!B?448-99_A&
MN-W4Y3MU@I/\%[O(#^CTA5S:R_B&>0&-#!CFR0.Y@QC^20%!`=GT+;1YTT<W
M"3F-+@%NS]8>@'P#"`T@\#X>`KY!GD$3"@(==?@-+MQ@4YR".]I<"(O#=A?_
MEVW;=3#=!S\P=`=(.\)W[NL#C3YA_]-X`I?#`\H[V7,8(4`[P7*M,[U=!$BK
M"(7_B\B#2-]J'VYZA*79]CL+Q?2+SW=\>0ZD&)(U1DT(=N@Y\A$KEPT%/2^[
MHB6)`S-\<N$A&T$U#,/9BS$\(,M"CO0Z+D96^X0'(8M#.WB"D/X6!L^B@'+D
M6U]5$\\='"S*4XL=5CL[*/!@5[[M@>\,RJ;CP"3T6B9D@=O(!OWXTWF_J/?%
MB6>P=2KI^%>S+`S9X)'G_*-CLHE)PK17HP6MVMZ0+V$`3"HX_'SN=MIDOF!#
M4%;PR4"Z'\B%$E:^>/5#N,!BD`Z25@R5>\V=;%9==4ZEYD2KE+W!)JQ:T\`4
M'CP@OVNF`&CG`\O4/=+9>,2'@+AW?ES0GIJ]P@UHJ(*6622A9:V"?(`5F;5*
M7V34#A^2S:_-MJD+`71&%^B[F/WL<&K85U/%,RHU&]G1Q3KP*2!,"C)4XNPV
M+>O0%R'EK$:`(:$B5D5J<M@@$M":"K5+SAQ&1ZT!4BNIK26PS"8*Y78.C`5#
M=/I`@X?/%6]]5HH^G+J-7XGVVU-`X!.$B\W(-5%J)(B^*QFVQSK&!V95`C%^
M.\,7#:A!0V\/OT@*F5&^PN_3<#K5(FH9)'AF,S-\;<?N(VH0_0]R1C4VRQ]K
MUQ4,BTT0.!B).!ECY$8V*($(`E%H87'JU;3*=?"\9(>!M1<2N0Q6K9*#J34Q
M+?ZQ52);MA>;4=,Y58$M2I?3""O85`RH-VJ/]0PMV0QT"WM*X3_XMW3K@\$@
M3FI@FA5&B`P00.NVS;45'BT00;<JBSXM\.I69`,-LG@1_G]KNP)Q`0-)?/J#
MX@.+WH/F#\'B!,%R?_NW;0O3B]G!Y@()!L'O`@OS5W_?;M1['(/G7L<@B]]@
M6XL]6EN%(QPX7J+3=':0[]9`',(@&EH4.!ARMBS=\S7FQM8:-1#`S'8P,\NO
MA<>VS4(3`QY-LX),_Z]8H'.5BVD>@P,M6^$)-Z<("A1`.04@Z2%\CYG^'6B$
MRI`(3LF!T#KK((>".&LP$!X<4W%E#1O;C##:;'4-"F8$G5M]_6#K4+Z&4_`$
M_.=HD8T:6@Y9!\Q3#]A41FB($[O(LI7@D33_)9@3!9PR,C(RI*B@M#,R,C*\
MN*RP7>@/6,P`5XM\)`CK/8O`<$/AGP*+3"0$5_=,]G0/BO_/.B@H&SL.=?&+
M`;K__OY^`Y=>V.#0@_`"PG$$J0`X@73KYG[WZ(M!_"8CA.1T&JFD.`ZI@<O;
M)?YT`NO-C0CK#03^ZPC]Z(-UR^L#_&`,7QF*$4%X@V#O1V2(%T=BM`6)%SM8
MBYGL9VYIBQ%K;^SO)N$O-(3V="?WPFD2!\_>;F-JQSB+1,I?PV8(QD>";<E*
ME`P(B`=^H\L.-!``55:D5W4<H1@&+@OA"W@/)NQO;_UOLV<>''1=BVPD%(7M
M="[]@\D<_U]HA!@3\J[WT4F%THOQ=$'[_B4^]A,1.\YV%7T6/74/5E52F7AG
M^D>L]U,1BU,$%'O[0KLP==$ILUU;PXO_1`8!"FBX-1<$%`:0D`X(/F4H&#\)
MAU1IBHG?W95=WT^+]QD4B@=&.-`BA<MW0UT+B@8*"G7U_VOX_[9?/,,0\'7K
MC7[_BF$">R@0<*W^4C,"..!UQ(H.,5OJ"K>@9O\W$'1\L2^;>\==-(K"Z;_B
MC4?_#(W'HY=V?P56BW2`@\\/1@RH;'_[Q78-QP8`+LC_HL.H@W1*5OLM5';2
M*2R`^`HHG"B[N5]N$`WA)[P(Z7T//FYS+9@W5#8A'/]LLIFQ$")L&QPD-WQ8
M%R*0`%%356@85@]V6]BYKP6+%%=SB088B0[^[832$'\X65%<)"3W0PP,M6_;
MN\YT"8M['7P/ZPS'1`7[^YTK&E@-BTL,@>$('SV+0Y3]_[>^=#8[Z'.CQ8L[
MB\B+T2OHP>D"\Z6+RL8-VV\]`_.DBW/,$UX8*_!A_07S]@/(B0Z)$XG9ZW<[
M[W)(!\,66L>\4_81;-6ZW(NTS`Q.TO<3W+8OF/TK^NM:_6<05[_W;9/A*USQ
M]W1+9P/P.\>_]C7=_W(_ZRL/O@Y344<J"!]&,KR=B_<81DT>_[Q_",*VU]9>
ME_1E-;8/(.T7W,'R4PP,:LH@*\6)"];>;'-X-AP:%P\6V9'LLA&0`,@O3/A;
M^K$!PUF+5,U0+E!14NDM,YL)+7PL`!5G=NW3\VI`(LH4;"$-7PF$GRP8GWP3
MLEPD<W1T0H:$91V=,Z+5!0;Y2CON/3M#@U;C-P8/!RO"P\FFAU"%4'8PS$*(
M,Q]^S5CXINLAR"_<%U[WWOA;B`<H&$=-&E,DF2NY0!YZ7A"#ZU$(E:%`3F`2
MLG"$7A8<@`AZO/V1?X/^X%=W--AU!;X,.+U@]PH2=PM'09:CH=!N:=03A&7"
MPY..F3-UV8##SQW\%D,$UW`/H?3K^^;LM_`;C?!W$HO.7P1^-NPVZ*B]Q#`5
MY!N6S%+#6V8V4N1#/TYP"W?@.WRH+I>)4=H6>*N0GD$$(XWZ?P.:-<SE>ATP
M/X]$M_4\*WFX%/3_`71NW06V!00"3B3O"XD==156!=/]MCXL5!366>W<K(9_
M$%P]$ZB`I;>[6[@D_"OK%*@^$*@(;Z%"7;7V%6!&S5_/A^&#7HM.ZZ8]0)IZ
MP_;WV!O``T@!7\<%Z'X6=!H(L[D1`?YCT.`))V`\BP(Z`74N"OX"MS<G)CIA
M""4*-QW!Z!`Z00>%I=NK&101`QUM;H%M"Y8$&G7KP.WPT-JWD&71X$##"T.=
M=,_6[2Z5`D)$Z4$PX!,"J'F:K[5F6#-;TLK)'TALH,&`ZXQO@^P@/]?5=<DD
MEBP!"`/9*(UMVOUNHC!6$%&-!%)0.AQ"NJ[LR%C8/]PB%/%(O2U__"%X#DZ+
MQL9>$R##C:P-J]#A4LEG&!7HX!=&7SX`?00"P_\+7QK`2@8]@/0-?F8]?PO\
M?WU?^UYCJ2L+["M:>U!R[EGNLE%\H004_X29]_UHL`^J36P0B+H-"&#=R],V
MBU0KP5)!##PX'!"!].=96\">'T!1?/!#A'3<[8VU!GA!#7X_N3PNK_TE_H69
M]_DTB19]#@/1!5_M]L-K&Q;%N(F(`/?I&+7PC1H)<OH%B\*['^!E+=8DT3L-
M/58$,H4UUY4^!C\(<G(D$Q@("")=ZU^XJZJJ*O?V.`*VVZ^U!L@:?BQ/&`/!
M!ZMM#F<_SP\</+(TGF-#&`/"TD7S!7>A+9J)%A!]32UJS24+V`@'+RQ0#?LK
MF_A_'X/``S5L`3U&%$@-<Z_A>1`+`!3@PT]B4JV6\5Q0#^_:63K@B,P+\MKP
MUVP%AUE^"NQF8G-[-WT*9CL5XBIU/V9$#07@^9[+RS%,)`8-WB,I`OMIGJ?:
M%0#8!Z'0!AXP3;?K9E<@Z%DF#;F_U`1"'6:#O"2Z?YB+'ALPQ(0D0)$'N`A,
MC1JM>(``G?V](^!:$(D53_6)#=S;:Z_K"6^C6QB2%.3X@P=G'AP+Q!Z!XF=S
MWRV2`"4$4A@/X;"!=6,:420@'QM3[J5I44!2C"3L@KC@<*L)V@+1@<0DJS]&
M3Y_T&P$"_]!H$+`0?)M-K@@$2QR\:`01`&NHAX!Y!-10$;-72.(,+&\?,!N$
MD`$/,"Q\%Y%3,0%6=0Y50_PF3J;!K?CH3$>X+1<?T2PIX=_>TNX=*`EU/BCP
MJ\$BBS7LE:[T=PF#[@0[\7(52;X(@7P?FQX4<^MH',L4WB@@WR01(.1U$54C
MLP799C"`])SJB93!G_<0-\7AW09S#VLJ^?=R\72;P8Q?B=X_!"+-P&Q?)`@)
M`+,>F$T;45#T4\PU#8&0T!(/#T++(;!"*`^-+%<-@1:O5+0'%P@TT0<4HW\/
M1,L)-"W&O\8/3%&M^DLA*Z.PRPYX@R\(CPN-2XT4B+_42@W&T@3NT(V$D,,?
MMMGWLGB8`)\'X$"5W`"^-0O\=)`$*("T?BL&AMW*#5=C!X&V#A?^#9W03B@I"
```

```
M.-ETT82M47K6X(4'[0O81\/!X_0(Z%)C]8L*O^'!YC/+./BKWS(#^8/Q_^K/
M,\9Y?EN]:KOKG24&=-,OU5UX`56!YD6`W5Y?6YLJ]`U%BT+\.-A&Y^\XFLYL
M\-QT)X3'YQ(5W+98NVD&U.N6+;$$_@_.2><W!OW\CQDY`0Z[[A1`1`*<!@7(
M\^\D(\LR)!-!_U7))-L"-<,)_OVWA@TR_,Q_LT`!P7PT(B=&"$_2`C-^@_O_
M=5Q)#/XK7H(O]!!W.5V*D#`PBR25($HG)^$&\P);T^0`.?M$PQ0,%MY8>"P)
MD,C@M"14^$(%Z`^!&]3WV1O)J".6.\X0(\@.HXQK6,M]`D8$G(,/^AJ(-=H3
MG0^?C2?<`Y8=/`\;V,,7V`$6*_G2$(U6%.(8%<[HB_K?R/[AV[9AAGN#C2_(
M<`/(9C.?!X4``P$#6@@+>0*0+V=".'EU#%DK-R"$Y,A8,4@Q*I<P0!@I*``&
M.<@@4"%4#)(#&4`4'*20`1DX*)R$0S,F)"@GAS!6"#^WFP,'KS`GV,E"C+\4
M$`[/X*WW2GT?<QB#.!>)!N[)BT@$37(A,]W#ZT@8=&)Y7%(3%(^Z1R=.M[$2
MA0<S>`9::O]N>4VZD\$6DQ90(1B9KLZ"'QM0AE+BO5-=`!@_!J^X*Q:VC5=9
M=06+?0AV&_1O!-$#QCO^=@@[^WCZ]\>_%(:1C!08;H/Y"'(I;T,;"B#4:#,Y
MQ[H<*VRP4;5R3.`#5==]N%7,@#+SC7@>D`>_Z;IF_#*0!+P#X"/1B@:(![(U
MM_V*1@&(1P$%`E8(6<:9*\G8QUS,W2MYEF4L)0$"`J;DZ\XFD"-&(4<_C)JF
MZPY?!DP#1#PT@;^F:2PD'+]$CN3!TS1-=X_D!^CH[.Q-TS1-\/#T]/CXX-78
M-/S\C5B:Z;Y#:#?X"<#P@`.,O<+&KZ`110@]R6*=N&"S@0OY$:-]F"$A#0HK
MC70Q>\D@O&=\.?Q_)`W]X[R5SF[\=P`U!^^-L#2?DT.(C_DK"#1,U_TB+)`8
M"S@#8+[N5MAM`SIO`TY83U:V)0Q[2TL?HVQ`OMON`N\"*8R0)\J6A+<DJRT#
M"S.Q\:Y%6C=;FJ;INK1_O`/$S-3<TXRP:>3W-)<<'$W3-$T8&!04$!`T3=,T
M#`P("`2Z$Q;2!!\0!1CGEK#I`R@\-9>WM0MAM@2'#X,`"6%@$[<H+)F63S^)
M:/(E_BZ[VZAP9*&!4&2)-/0",4+P\'.)9>C8J`&SR"`3U%P`-G*F)I#(HB!D
M_'&V!FW!X=\*^#<+X2Y#H_0'1C,*:ASMWD]7OB;'1?Q3#EVL^-C-]@2<5!RC
MZ!LN66RC-(NQ=ZQ,":$2//_[^.UVIQL'5KP$5<P1G*&%WMVN9*,4!%"A"`6\
MN!H+N`0&*,U.&BBU8R]=1>10.NLA\@\Q.D9?<0J)3>#,5#R%X&QL:](7X"+L
MFO\^4FR[P4WP^`UA6XOE7?T@NK]@@ST\6`):87P4F*9X_;EA>("%X.^)R^?#
MZC%B$C\,/@U,"H&VV4Z>40I04%*EW#O7K]';AV.<RR@&N-#,P4.6PW9`AC?\
M+%\8BP-7"V.++20D-1#ML&H!_SYGU=RQZ@O"A?9T/A*+^'Y)?FT+-B\R)597
M`_V)=D`::E=F;(M#308.U#G\=+!#1>>CA$!+L%&_&'6[#%P]C<F-F68V+(+7
MC1$>%M$,R$*XS5=D%HQ>6>T04JYL8E"D(1*O/?YW#N`;51!7._`/@V#<?J,;
M4XO^%P6#YQ^+4^`:[__8`F0L!L'G`_9$.00!=']R-\1GQ&M\=4*#_@_^`G5K
M+89MS0(8X>$++#'9#SO#=!XQ4-(LUU2;G`HI2ML?^$^PT6KZ59/;QD0Z!`!%
M2%*OI5L+<P9N!FD$^0D.DV8)`^P`)S%"I*3?OB4B`FT+<B$*"+>M->H1E"7W
M^_L*5Y5MPL2)!LG@7L,_E!_1B+FK*:QP$R@2\3OVMDMTAH],]LET$ET0S#7$
M>VNRO5ZP4(YH$2Y3O^Y2`UTX%@>`^39&J=E&?./=/YR+/BOX*WXTBU8*Q.X@
MT%)\.\<N=1=A<^YO0ALD_8E>!+$KLHL)AW;VF_$,((/+_Q+'P`C9X;!M&5\:
M7@N$MRR`><+#[\`:@@B^%8(O\U<S[3-0Q7Y-H;S86G2?#`2PT3<VS,%\2S5:
M+B^AE1'.*%N`#U9>'$7K&545'K$?V%)P$!EU`@OX66@KW(U&0GRS.,("G3$2
MFBM=CVH4\R[@C_YN$*B"#X08J$`/A<"]%`47&A6H$.+0+7"-I,C')/X&^FZL
M@-P,%23O#`*I:"T!WQ1S)H'^:/!B"",+<;,'B'4-57]M=8S0'MX)5@SC]RI>
M;$(++8B;88WH0F3A_TD[^XD6B4X$?AAG57*IAJZV'MCM('"(YUFZ-7U3@_W_
M3M7*P?H*X+=O5:25"P6XH.]O]D""%*WQ!"!T#/'2L3Z"7>=!/Q0\%K^R3*[P
M-^OI45T>V#O?-\B^AN$*L+[2="5H;HN]J@T:7QL)999>P\K1O."7&C8L%1S;
M.\%!5Z:1`4<NRS?(B_#!^>84C3R-;^BB(^8#0(EGBDP6!!I]"PNM`4QA+YR>
M=`ZZX$+U.]W>`R#[&DTJ,U&'7,,J%9KD6-%54`>N/.#/UN>`0%&L)#0$K(C?
M*$=/18O]#X:#VL;_1X\HB\\KS3O+<RB*#T?3"E@;?O<;YB#&``U&0(<@B`A`
MB]`.*"M-1VWWT8'Z`$-\T+N(*!RN:$'7*_*T)',EN77[Z(L"5G(DT@%2*:@A
M?N?.Q@O$*B@0`]`[QHD>MU[H!WRNQRO%6W*!48Y'#8^Y]FV?Q2SK]8TYE05U
M':,9*5L2+#MR[+@6%5IC`WP1YSC-0L(OT!.`?0`:(TYECB5#\0PK+1K8PG(O
M:126(=:5.ROQB:-E++@BT_#5$)55SB$5TK6B_(%[FEU84\W,!"%/X6AQ(Y(
M7Q&*`?S76[_I4E4]>,<\870=/'*-/%RK0>!W=`<PN$FOZ&;XN^:#SP'K"+@)
MS`D"009Q%YV.?(H)A-S0;[;EL`#V!Z@/OLF#P=6%P@"]84D/AP!$VEI^Z)D$
M/^N=W#ZHM'$/+VU0F"#\CH'/@`MD\OV%`@!]78#,@.M:"5.YO5OU0.M0'$JZ
M8R0`0//_DZX_$#GG_[___^LNA>UU*+U/NA:-^`L,&Q#KOK65MQ1%$'4-"0H=
M=00,0"=KB@XD]BI!KX50T#W&%Q1,%11HI#A1K9J!(S)MG%D]^]3;\+!]_J%T
M%D"C!3`"#S<&B7@,H$`KQQWA;(NC#`@&'&](S--UAC9]]SUP[$T#0$W3-$U:
M"AXO%&S8$%8P\0`!#R\[(4\"`P0%!@L'">#`"3P('S5).+#$3YS)._5^S16=
M(=R7%U:+`CL9A%@,QT;H?P)_.\Y\[>LSN3R(ZREJ((TT`]Y9Q*!U#1BT;J!]
MM@0Q0(LT,DV6_CO];5"V-UV);P0"#$0O!")THP1G1Q!@L1=8%JW_JM4`LC9X
M)\T'`@O'`I/`UK<!E@MY@1D42"BE<D9=XD!;&U%2R7WP1!LH/6Y5::-%WZ`<
M<,*"=3+^;V6!EUH/ROG!_W\A6Y_ER#R]/,^_BD^)X75K;ZV"72L&@,Y[-H%^
MH1QL#SMU,DZS42LMU:3%ED@2922<Z[Z+!HH00(/"I"4@JA4X$9S3;B0:#5J_
M"V,-Q5&`DE`/4#(;N#PB%#O8:QT"'')#%X[C'Q/!XP,T3QL<B&43"Z&*<)UF
M@5!KPNWK&H6"`;?%5(AC"YO9$\\<`CO&"$@H_:]"$,J*4@6`^@JIQBAU";T6
MC?[[2489XBW[$P4*I+XN=&N-T+]O`U$SK"&!?$U&2-T:*+09:),>;5U[(^O-
M^P[I$U=!H_6`2^J`EE*E@:VT`ZCC(.#B2]/+TH`_"G$$)/N(`0>-I;J^`X[W
M>S`]X]U"&`WU:HH'/!H./`W[C;N^+H@&1D>.,K5-67,;@'\!/=N^EV`+2<8&
M"A6T!PT?=A4>!.H0\A!5;-%0!>-6,)Y2$RC9"^@+4D??7+;@0-+Z`M8TYU0
M@U+!?0'VI3?Z:_WO;JX\GW7K.EJ+"4:(1`L%ZR\[=5O[5NMU#(!\'1P%>^LQ
MN!5\%B#E_U+-`-[-=3<T^#IT!)%BU_%F]:X/@C'W*SJ+[H7FDE#H&Z>?%60W
MM)<+0(U<!0P"B`,E`ADM85^.(L`AB2&A1$0ZHPW47\;_T$4&)L(0+T*_?S6R
MT!R[MA'0HTL#N#JXK[&,#^9*$[FA$$[,,#EJN+IL7^#NM]O;76I75PB]T`SK
M'3%6(&Q,^)D@..0A7Z@K-=>^^CU$P`1V'P0Z<+5KZ"3_U[\']%:`R&<9$.(8
MP'O@B8S/O_U;]]JIM[NA!LOV"0-]D.7LH=02)]3K&\=%;^O7B@B5$HE-?"T(
M'_C?RXM5*HV&=8U-&(V5F'M%%%$'6^V)=1`B.%6OO](O1>D%R/,/G<)*@^,=
MB[_T(]=*SE'XB7G\/4?CN?3^EL$\"-;SJXM%$`6G[H"V:(2&N>.P_XWBA0RU
M>.3IB(;X\-CO!^D0@<;.@<(G\G+?FB*WC<_#WH#JET`XG'!6W'1J5318-44'
M-'M=7[-3P08]_4!LKMOP.37PZQT)BWH-"E'^"^!JC2#JD(:)T`#<`H8."WK!
MQ0&&SI5!OW@PZ\"+C@]%!3Z8U2N#?Z/M#9MBJ$*W$*V[`/`_6>YA@;\^Z'5'
MB\)H"0/+"/PQ<^"(:2W'!ML!+;;C%4AY2HD&+'&C$M0K!!4I=PSJ]UWT[D5K
```

```
M%'0-@>L]@^Y;P8T7/7VDBP=_!",N2QVC\(-Z&/_K:HU*'SE[)QAN#`M`BX'P
M!NP;,Q>@4NXT_*]T5X:!VQ$OCT)^6-LE'C[VN`L[8G8%!!0+/$+I<@N+G!PZ
MZ^O##U`-6_%U,XO160^C^KNYI]JW<B-"`@50P27RM(%:4Z[(#J4W>J#3!6K]
MD`$(.%K`0TL?$U:JK56WUF$?,W3(C`-DX!=P%&X1`_*),(%DP6&BW/Q9/?D%
M[^UP&J$5TO@@HP@RP#2UV1"T-0\\P*$5M\]!#"_B)J#DBT$0[\+=6\N%`'G6
MJ1@@"/<K\44#"Y3Z&,'^`XV_\!CXWZA4+DNK?!LY7P1V%E-0:-^1)K,Y=6.;
MB1?:;S,6,PB=+7+2BVD(3$:ZK8T><:3U.@9>961`1E=!7OMM1I;&Q_4)H:,[
MR)T_%MOP=#<I-O\GNHL7*].)ETT(VA>)J-88%E"L(#<6B7$\_EK1;LTY34-B
M;1&+;<5#6Y`;[>#TXS]:"`S?;OB1*_UH6;:%BPCO\O_G_H6W@`6'T6O^$'WA
M;WV[Q%`(:0A&#W3PB\90P>`,-AO=&:-7-B"H1#O'$;2')1K+0%1(*/%2\&G)
M!\I^,A7]0RM1X5;:IHE0_,:`O!%^?Y/_QP$/QT'#!4MH'7YWC4YUU3V-A7]?
M-]<<3P)S#JV_'@MR]%RWEV@#]B/!B;2(7UXMU?878`HKRXD*BV(K51\PX?&M
M$0B)#XV'=0([N/$@<W0UBTJ(6;`9""DNO+^C5HD1NG\N@>-ENQFVTL7A&#P$
MC8$]A3%"++=9/^<(3H_&TTIXXM<??(L/.\*)W?&-GZ!R.NX6%MY+$8@1[7-4
M-Q\#\BO8N)1;-YB[C5>T1P&V;23=%R1_`H!10J2M<$$(3+W"77:`MC7T@#@`
MW_`:%D#;2\0;97-UB@90/(!^E(W^N\'I1@&YOQ5`02?Y.\IS.6BIX2(#,;J)
M<5=;55ATS=#9.]H!VSLL$\*(E>P'X%_A]IH#4RP6&:$[Z'*JW7<SUU)BL*D)
M*\J)!T'K`!9^X7F-3T,/ZVN-;UGUC#W,7J5^C0PTAW&*(P3L=X0>>7),<1:D
MMDS/'+W`;T,0M@2V+Q$/(B"T6X@@%(!9#X"449,W7X8O&3Z>$(-?B]4KUXK0
MC=;P','Z##`@+P?1&*/_0"Q'%Y'R._-V&XB'(O#!>`$K\VL#QHD!!MLC;\=A
M<W#A.XV5RG=C@#Y;U!8;XG.".KM"\-8];0ER`$X^11WX=S0&@]"X`W8PFPT9
MW_$+M]8`C6Z$TGR*5`@!0.6%QD(:]Y?F#8U%:@YHDT4WS'LTL&7?K0/.B0AV
MSZUNYGNJSA@VBUWU!RZ"E<!`^Y4KE"]`4Q%Q7(O*7=87^JC1CK-_RHR36BC3
M0^_V(J_*]8C2,AD>CVPK?C-51YDK\!O*#]$=NF^HEKC(\2OWJ`-'$%VQG2U%
M.Q?3,>*`QD+G'XL$K-"@Z$*%W\3'.\%S#^22`48_`[R&M?4RKMD+T#FLL%$7
MQFUX]@[QT50]UGQ%PFM+/0/V/21K`6%?1<**FW2+^Y)1M:]HHY4/;:X$R9*J
M],KV:KAN5'$I.QE]0+I+/Q&+0L@,!I8+O7XI6A3`('1$ZT%"5<+-3GA!/;I*
MD`-^8G<7.`!KO$,@M[X6K6.U=QN;%G$K5?(7!`1T4('3'R(YN,Z#V`#<'.N=
M,-!?#U[;FTK"1D834'B%ZI:D*D"PRAE21H:&D%V1/2/:`2,/4U:X"*#)``*-
M`!P56')9KS)K4)0$KG@9K`O`0&47[L%6E%'X.$@B"PMX013J-Q4+JQ!'\(I,
M,`$O0!.!,);]B`@()-#)/G::96.LV*\(`ABO1D5JDI->1E.K:W#XH-#>R3P]
M;#7(\A&:"$8/)2L!6TE.9!@\S1L+36Z4T2O55!B,7/*<^^?XQ:,))Y-"5)S'
M9_EPP"B."$8\1GB>P$85V-"4P\;##*0EC3R:RWS(":T#_?-F?2P>W0B&CH`&
M<WF6#X=[S-LPW92.#V22D1P'1S_KQFY6HCRQ-C*!_XGD,KY@\D&)OSS-QA=-
M>HE%!D=@[D$#X2EHN+(%3.@C<0V3$1**A#F\>PS<`V],7+&\)&0*\+L+E5#M
MB8"*'T>$VXA<F)4J,XP7*2@(B.[]5`HHZP@%<SS=UD+EPB3":0P;@.SB__;[
M('P3!'A_#@^^PXJ`\)]>X`_#$7Q[6P^$P1"@BY^J0;RA!V`\#X>]/*9K:+=?
M7%@6GD0#-"-3')HH)*X9UENX7=T++")(%E-CX#?W]U<GAX('IHJ(E#M"C7RY
M6;\P4@P$3RQ<R(6,#@$"@,4MR84(P2IU-JJANI:4)+I2L4J#V]%762CJC0=Z
M=7NO1*6\_Z<8G]XM%@;+@K9"0=#&(T_6Q1((&%(IC8108>4S(!BT!NV7VNVP
MCQA-TXVB>4K07)9+>"8`MRZ!!F6'G)R\J!#$7J,E^#\V=2"I-/H902A%":VY
MR3?"NV0DGSRAX/*`+-7*C=)40)<`T5`!N<(L-+P"8,".QA'">MI);!:HX!98
ML$=)(B`)+2&79B"$9R>796S/O367!#"]>)"16>RI,`A$0-AU@S3W`Q`0=#F<
MO`UZU'%D8'L6W%1=7^AA[7TN?.<Z4,-<530`^G*60T9X1OR-C()1B%P)R]XA
MDRTEJ$8(&@@9.FHS>]U*'_KVQI>\ORB\8?>YV*<LT>TY%1$`<P@</<A,BSWX
M4>Q#9/HUB:IRB^D:KGI(V>/ZOI!(V"$#QNFP")]S.07#D%NI"J]'N]HZE-$-
M_+.\"Q08]M9.A=*30=!F<&RAH8-^"F8"&77P.8L5+E#1^")\.?BS#W4#,0VO
M"$`N!B/AE?,L$A/PVD6QA4L59JL+LQ:'9V;$UWL<?KK8)!`2#D2`PR"ETS4<
M0[!<[Q1*]-73YT"%P'T*!@9W#\5>@QL9^V>>$,O6E0F:?[YHB0WKL.`.2/BZ
M\E!(0**AE>E0@W/+9)?C@ZZ%6.K(W:WP4+P+)12!YH#8A9S9=FSV#K%<41W4
MR;(LS?9J%O944LPS9WP+;5PM=1.W`;9"!$/D7<C1S5\'[4:O,`K?0"[K[,SW
ML&D/ZU_)"!$X!P8SQ>_;."=K-Q"W#5ME`#5>.,8/(C!U!2[H@,%1@?2(9B>'
MO1,CZQLI"`N9M@U'L=?<F,<3$L(=,)`;WNMB]G)":&R-N`1`M,6DNX)&J\69
MZT(4ONT4C.\7*C(3D;2-!`<7$A[3&U^#`"D>+W\:?"N^55U@<Q08@](@]]J`
MS]U7W24Z^HF9ZWWZGW5-]%6)`ZQY&+NY-]XC%5:#X_<C<@O7>'7F"/`D`&1;
MJO\C5W1LM-=_!HO."\_A&[M"P_8PF9A255=6]/%WQZYHAW,\5%B+V!*#PS!I
M^[MTQ7+[.71^!`-<.#@3?(C?=H@8!NNK%?$0?VR-K&,KZ$#VQ0(=$OU=-KK]
M,'69[4A%$,8`,!U<4]0Y-$(.K&3[8:'VZRK)<@>C+>L6$/>\/%@+*^L*`G0-
M(,?LJ!.B"BC\*_H$&MA:/QT,C;0R`K:`Y410*2`W,V$61DG>&2V80/>!4%%6
M(RI2B^9RA71X=@0.NB';;!$=.S"C+'>DJ"FWEHB.CGAW+.V@MEW_GP;42%!2
M`1%H!?P@#`0$?H!^(KFV75LDZVE4:.U+&\:6L"UF[&48*K%E$2P"+R=(]1$]
MA=[WC!PXO3O0BUYPAQQ25E4MU`:39^MZ47]0:99-LP.)\CQ118K3=,VV6E(3
MQ=0#MJ>??0=-XQH;``4%`04``@4#:[I+;00$-?^W,SNH!S>1#;9*4B<$``$.
M/=M]20(#D'@W1U0#7%/M.G.YCU!5\U(#*@M25'1=TYP'!HQ(`VXG/B_[9M=:
M`P!7$`$0`A```Q!W>9`W!!`%$`8'"!`)"F#`\O8*"PP$#1`.#[]LC49T"*NF
M`W@3M%]MLA$.B`(',P+UJ_A"B1'K+%%0E=K#7UUUH@R)`60,)FH2A(3@"V``
M7E@23?97?B6TQ(:+3`_]0E-M`M6(KR+^2`3V@+?-)<E_YX0_%G@TW2D[(!Q>
M;0;(A9S=05!&0P?C:+#%:L^FP;3)0K:+'$#\GA\VL@V:"$&;42`_J'!E$V9`
MH4U`O;^^5PN.O/\%#J,;@H'_!O9HR'UMJ'>`FHDU4`=3J.Q`D"T"A0F8T16M
M`[95WNZ"W":HPU]H6"IQMDO#(5Y7`A.A[%C<+3:L!3/_OCH$0%0#\2_$L,'@
M`F8Y/9X;VPTZ(A-T4!1)`I+XIHMM&9`/&_)T(J$`"$0+T:81=!F9-=3:D'.G
M1.[!X8;4WL)'E.O./18%`?/N1V`5D#QJ0&A<B32=P?UU7*&4$7$4L%"#/5B+
MEA7&03\TQNBI-[1""8E9PX!]P96%C?B^#P1\_O3WU84N0/^*$(K*.A9U'.<4
MBO8N%R5V#%8!!S`OI=J";A-UX/,%22EPM-?8_U\:XEQ/!*D8_08!40(OBE60
MZZGBV=G>%5]K*29J`X6D8J0H52-GO[=$+`VF0'1<LH,2K:7?Q0/"0@-V11%_
M`G4PP@AE14)TD>"<X8'LO&EJ!>(SR[(SP`0`+2O;LA70NBD'`S#N.$6S=_,Z
M=6-%,Z79EAUV9SF!-C(,D+';K0@*`44+??0W*Z2P`Y7R,%J:O4"M"/?9'A1%
M88L.AM2]#161\"0/V_Y5M73&0`,S9D^8E;'&`0W/=Z(V?3E6:W4%&_5`*7JT
M)J1%%34\;E,,.[M?IZ-UU>/">'Y<#5X*I89Y@SWP":V-I,)L/Z#)9B#^R"*V
```

```
MQ]@/^D,?^(PHR6:M'?1PIS._[FHFTB@5]B_R&VN7B%$TZTD,5=(<S<;.GE4P
M4@_Z3O:]%^Q52!9#=E)'!2?B#6I>&O9(MVQ:3RRRG%.AJ%M;K,(<JG/&I"[;
M="-0/Z:AH,Q2L6,_]R(;,@VBJQ6>8V1A!X90*-/K?06H;:PM.:H,5,"4NTUR
MV*&FSJ)0'TX4'-S:^UH;2U*P$0/K,P6/F$3^>X1]R;;&!,4!BU84'S:<I/D%
M:@I2`!6<LJ&L[0O\'\1.'#O0?1@[RD<[R'\@!]Q.BLM^(7T=^\,3?%]@QG*[
M?UL'?@E]`AVOC:[6?OXV)+D$&VOLL(<(A@6`>`,NH)FM4<-HH/'B_9:6D9UJ
MP3L-L!'L"7@!E`^<PB-?:XE+JEH'/U/KG"!VU5,!5W-10\T$#%``'*X?HH_]
M((T\A4J'[/2;IB??!I-,$HTD]57J]D+!%-MDC7/_B=.+>*'M#8W!_@()@L(&
M)9PO&(-:4[XD_C,7^C=%*>@[UGT/P>4#=ROJP,F^Q0/N5BGYZPL.`\T[@!<=
M^4`^+(N_XK_;OO!R!@<H9SO/?B:#Z0?K(>Q3M-J7`R"8#(V3HGV?8@OX#)6-
M`Q<]VC)5&:#'1RFNUJ'4&32:@'(LZ\:Z45L=F`F*&3@3)+3@!0W/3P81"K31
MF$O&E2VY+$:L0-<+^\`5K`/"2`3!#3VS_%VP?7T5!?];)@6H$?;>6IQ;/6D4
M?`HM&Q6((#$+(H)16@J>RE89"^:%_Y?B#X"X>2T#$5?WZ<'Z%]'M_I.H5<AI
MP(#@>?@#B)5&P;[_1_>`,^$!?"R!Z0=`#IYM>9(=`(7B"0CIZWT#1ZJVHR2X
MN`=%+L*MZ`BM6U!Y`\$^BMS="]+!ZA_7T*,L(-L/2MUE*]#;UA32#`?`$4S5
M`\KWGXMOM*XHL5IW/D3N[\7M1BV3;K8$0@]\]5N[5;U#E_Q*<14@06<<&`O'
M-HLS:5WW\M8B"I19MLT07]&.0F/E'P1$GCF+,EO[N,6SHI'W/"C\J&91FRH+
MP%KCS78/&!AITO#Q;8TG;D'.(`4;%`B:%HW=HE(\N!"^`EXXC$3?#0K#7R1B
MX;+)72CK;(4$^T:,O4).:@/Q^XHFC['&/(\Q;AC7ES2]8O&!/:JWJ@8A?@%&
MDZ5<=;%AVUXLR+QMH2WU#,.-0P#1USL"#-1>=86*0SE$P(-;Q\'0M]%.0E1(
M#9"J`NTE3$\?_J[BFS[*?&"L`H"!5?!B\-"F4)=T'^@@'*J&8`N.%V)1"WA\
M,HQT!@,M?+LCA:$&)!OP)')11T)/5+G!NUL&M2:XN#,[$'1%>/NW+U-!/2#N
M#'+Q@_H3<A`$)'<+Z@U0K#J.PX'ZO,V9V3J[$@?*&`AVQTO)B@I?)03-O-I6
M)(2^$,._74ZJVHNAS7T7,%L#:%B!"@QK`K%4<O$0GYRYCL(Q^YP'PA4,'^@+
MERTTLKBK!17B!8P9JG`&W&>U-9BW806W%PI<<3OR6W)V*]8$C2@%M^IU$<=.
M.PQ*+[LF&B\NI!,]CL"+\9V[`VY=N8-_4CV0#PV!)S\G/T0]D80V/9.%)S\G
M/R@]C8(:/8^&Q#X^/PP]D@NY,XEG5\C4&S<(_].BX0T7;+#8B;_04>T?!29*
MV`09I9OP2K2!3)0.K[<M8+9F(%;JH.>XJ/"<^PUT%>?E"[X\6_8W;7,$.1!U
M]101=`*@PH55H%$J)<)%F.92;T5;1(N$9TH]@2\KP-01BD0*S;2Q5&U4`\_C
MHK74<T)-NU#B\/:0+<B<2!!?"=JH.T.A$8I5`.ICMY\0$_D?V4.`^F-%4[!"
M]6)#\84Y1RX8EBS0*$)`1Z4\)SA47]!H2^`$*N;P>)=JX8I4'>?K5IVA;D2\
M20JC!0Z:`#CBXD&B"@H1+X\(45,-&YUH.&9JT%"9S05U_CWC-""@YRKU%X`G
MQ`E(T(F3=@CWNX<(]^!77%V;>9)T`^$,@E$+QPC]6`?E-E-20Q2.4%)6:A;.
M@C\[2#0(7[Q(U#4=!5Z,\H"'"@)C-'P\JMB&T<<'R=>$^T,3.[N#=`F)=?N_
M1.$-I8`X(G7`<T"`^2)T?8RHJ3B\-`^$F4D)?ZOA76`/BQ="IA<7B@B(#D9`
M@[W480X%[H@61C=UL0O$L,@6+P!&4B.VM^Q`ZU,K.@1`>_D,N6`DE#]AFFON
M9@M2AR!T"0D(*D2X>@EUO#EYD8M="59:1O]^-=-1,]5@M0-3!6/;]RT%*0-P
M\1?K5D\$[+KAW?^/C@-=JDN`^Z-KJ_AVVXI8N$$.=/:L)?>-]P=Q=1[.>`$B
M2M#M:J:`[<AN693"''O;^'/1Z7Q)#70108L&7-:Z]F_G'T-)B1]U\(2M73U5
M6M=MOHQ4=$^`12<J,Z%]1P+W]H/K!&`(=.[P=HL/XT&)#Q,*"4`GW>%2\UAZ
M=2>!!N5L]FL:)/\'''(`KT7H"BS00<,=&@"S`+A&:<0`;D?[I+:+"%LZ$*%`
M2B`3CAT0+6"E]Q`C1+M)/3Q/)6@P`"*WD!'$YH&-AMA$%[@"9@$'[\$\+AJ7
MJR40'9P,Z1\JP(6H/OET$MUO?-@.%W7W".XKQNG1^$#:>FP%X>CT&VH;T:M&
M*"0GV3[2A^B,5_+8NW0O&:D)!C93)H%3BYZM$`WL/%S#)"!8+.,-ZEM0$\!H
M:&4('@WM9[YT7(H+)XP0E\`-FMP'=?BLPT!L?[Y#<GGH[74.4TI4T%JJEXO.
MD\$^,7O`&5%34B%5R@(F"B/9==0(/Q3P4%I<O(>+4W&A3$BX>",X"44H5Q3#
MX@>L@7KN=0\L;!32N`FSL(&P7SDH5?,[MY%H?C!"/:#O[955?V@B:T0S"(6Q
MN1.O\AW=L+](FO.KJID0`79QBMU=6]46?S<N%XH*_2T+%,]H(DR*0CUWK8K]
MXQ2*F%.`RP2("#4&2@';=NP:`:.5#7)8C,T`(@@]BO<:_#YRZ550T+5;X(J:
MHZ/[4#5;U%Y[%`4-P8L5,#.RN5@)!5Q@WQR,K/LY-60-=/:@WGU@PPK2C1Q2
MU3/_P>-WG^"%^ZO`[A^+]=HPBD[=NTFZ`=<I!M81BI>H(PAO+_BPD-/UBD9J
MT]!'@W8%O-#%"%$$<KY/4*/,?.+)PXN+M.&3N,R)[X-WC8,01PW#BTN\P_M>
MQL"CQ_"EX5Z!)>_FT0`+(&9N:OC^#C+(A8WP)7"J_11L+',+Q?R*F!,9UJ`.
M1L\%7*X@[9X=]1)W)[1<;4@&N!%Q]MT%`[@$"`42"P0T73="]RT>,P,Y/P=D
MK-A%;9\!`@,[&$+&D%<O@`KYY-X[W018Z^F/QI#+4O_]6LS;&3)XSTAHL*<;
M!]!X#XV&'0O$WG4!;3OPWVT@=:,*<R`=BV@%K[!0B%ZO@WA+1`TB>\$Q.8L+
M`:W@C:!\SFJ@HV;+1KORQ4BK2[R'VN8+!'@$8A/=1*X(8V8L#WS7$-D"7A`0
MWA!&R]P;]FF^Y%ZJRP318G9)'R3=Q3NV)HD*C8@BT!S&0+;2,M*=`%@6>YG"
M$QV@1\)RY-G7WNR;*W0K?*CK"DB#&L$#]78(2=[>BNZ`@S2*!XDNJ`@(Q4:U
MM@=X20,K*O`?B]8?#+T`+P3UB13!Q(H/B('J^!IT14:F!`05^EI@MZ%DB-M/
MH?74CR@$VHTTVJ14TD/0SMVH@1BX]J:$PT@8`M<?C,#U4/!U?*!E&V!7<MB)
M/D-4J@X4QP;.2L];&`L#=18(MA(%[*.B_0:`B`2@C>GKD&Y4W'0BM4CAC:I1
M)4\RZ(IH%-,5;U0+0:C^J5VI'P(F4B]!!`9K<`HH#><!?^YQ!\D"N`/D/NA0
M:OXFRXWJ:-!OD?\U`&UK>PHD6"]P6O[(+&P;H"Z3="CY=B^SN'!:,F>(2!=\
MLZ-U$NW?]HB2+;-]8(+_5`B3&Z/ZZ\-DCP75#(P41;R_0F2@#X%Y!&CW%KZT
M9E'L4@PY490%FXH(5C!P4;NH640(]DO;5KQA2P)#^6L,65O'9SQ#[O_,S%9#
M,C!80S`P]^KZ!6+O:O$S10CW0.2$T4P4AX)@&N%E:ZU!]P@^(7.B-E/?>PC!
M83"QC]#=VM^+1595C6L0J`M=7D$+S!+5O9LS>#PE4U]?VQD:ZQU6#.ZY-FH!
MWG7;PF2/_8]5##L(D_C]SC`:BS2/ZZ&XV^L<JX389+\57&K_/UT6E';()SI5
M]2F+01Q0`QA0)`&.JDOAH?X4BC?1`0UB+H,]Q)S*5"T4]VC+()C!IPBA:+V`
M6</.`_\7$67XXH1OJ"&X01?@#>H;'PAT"_-%/>86WLU(\#L,[1LJFB9P)IU;
M&LM.#70-NKV2Z1`]UWD+;P'%2+FGI+0,75!:?'CR"5`6N>>^I(Y@+Q'9(KR=
M9J6D"[V*':GKC9P+'QVK92^./'8M&S)J`_=OJPJ#E[@2Z3MHH$E\.PYT`]E3
M1#VY!EZ$=J\5XN=,73F+^U;M%8-FHCY!G<6NOA+Z5,M/'\NB$.WB&")H$`>Y
MW<S=)[^`0'`T:%@-ANP`7779"#4<+&`?@ZL\[;SO,BW8M9$+1%`NK7>L7A].
M]>L&@<.A*FC`-!FH/Q"3](AME5DT9*D47$"``KU")(TL!M5J444T2#Y<%@7_
M</[L&!O<5E6YA$K@=4X-<QL4/+S/!O@*=`^FTW<,ZRX"P^2D^Y$J(\#`P)V9
MA4B(W<8K`8YN,%9+.$%^$L8P"P"E-"7$AU57;Z'*!!&Q0!UJ`AK1RSQ39JT%
MF!VM0.V=1O0*NML<+A`EH.VJJU=119P>>@2\T]!.*_#8($8`8$2)VYUH=P;J
```

```
M`SAU!M."0[$U$V!B(_M<2A:C1O>1[#V>`]FV)GX1`?X#F-Q00)D445,KNF&N
M5Q?52RLU+!>V`G,OBAK)&E`#RD(6'M&C_X6BI=`8.LMR!#K*=FFBA'5D:@(\
MI.(V"^2PA@9;3@$UJ(>3(1H/BN9+V"2#41??.>D&P%8)"%B+3M%V83]J"<[7
M1>!1&\G,J"T>D2L$D6,2Z08]W)+,'E50H5:Y:7`%N#DGDD#@J\FO/%!14EY)
M)MV`W>\V4$<X+#4T03#W/RI!$SB4Z/<TV$167C15>:\%,69&'B@?K+H7JU$9
M/E%2)A8,*S%KFI\J3H`"/!@7NRJ:^*VU/5?'>^*K9WG<",J8[_X'T04Z8)!*
M5H0-%*H05#C/5(5OH5Q@S)8G#L$8U/">:*,1"G=43P:!XG0;-!)T6`KP@D?;
M+Y=)]S`B$VH$014L1J=I%AU(0SG(@!UU'248]P#HUNHE..3H*\?7P[XG"QB3
M?,F,W]XY$M#`.TS6N(3&P"#<1$F-/+,Q!Z$7XI_8$XO'BU`$!8D71EV%V"A`
MDB;OF%AWFIH`4W%X)P6I3M9@ASWK9T9!49*]`P'"3B0<DH<PN<MQ=?LA%KIU
M]]W$&^U,`Q,"F*9_`P'WU2/H54(XZ8IA04@K!]R`MLUV"(G"Z&>SW26^=9_C
MZGT"]]X6M0BO4;'1=B#0)K`9L`!CL4<<NC.0@H]82$]I5Q:=H*>Z4E:MU@R*
MV%?WJA"U$;>H!`0XQR&%SD%W>!V+1G<6VG@H5*!G/"O&BH5S#>^CTA40D<(2
M$*@U=]DC7Q$0)F#C,1`QBQ+)@GY[K33L+1=6A=)3"PP7VK1TV!!!D4$D12M@
M]C<C@0Z,>(O>X0>U$1K]N%"#QRUZC-O9QXA&9Z7I(;);7B7X*VI?#X/-__AT
MM_'!_[DML^`!.T2-D$RTX&?G<Q^$6)&]?T_JCO/TZQ$-BQ'/`P/'2\"V!"C]
MJF\O1L&/2FQL(*PI?+VUCJ0F#&E(4$I!;DE>+K5][$4U5/,7<R.Q"BJV#$AP
M2!0=O';[0'7?P>86[E]@7P/@E56_<W?$%VW["H,\,JM6+5XM6KB`D`G9?.$2
M&QGHY"Y(+$AU,5.UQYM/'N`A!XD<,&-C2,D`LA/U]A)""JNEWN&!9,JO:(I<
M,NDC^E=U##+?A-IT/7DLR_>[.#D5OG4AMQ()%F;N%@Q0F0H%]>L$G!%V6$C]
M,$F@JG6U+)__'IRP03#GFYV:5\(N=,,$_7W"=#``P]T5%L)03S_LT#1R"3K6
M#(W1+BG@!DXG4,PHJ`:0(!426$9`RIM_K\)5`[__M>"=?HD*W!1]"K@4X1JJ
MFET%.@!ZW*.]=GODM-43:A1*'6^DC^PF'@]J&D:A#[$??1!ON;;K!1!T0#3@
MB0P0)W3Y!'?;1.M\ZIZZ6![&&F";!=D&\?@$]]OA!CL&QP*'-"!`@?JX+,3=
MD&A\T2-J*9R@Y*XN%[!*!8][?,,K>@`,:=W4I`?`;DZ]$1SIOE*)0<4,=!EJ
M:Q5;R0A1"<?W6.U7S2J)$0CDPPP$$CF@W0G3'(U!;<60L*PQ'9]R5HX$!ZOR
M1!!0-"+90)/+(BZ7R(+/LH#*5[I2[>MH#&!T%>4%((IPWR"0$Q#K#1C^]H7W
MT0[GQ8!U%01`=0R!/:C;!1?EQN`;"%0:BT:+AH+!^L;WRQ^<6^@12'+MK#F8
MP.L`!GFP$@E`ZPB``'^K91L0\_@P#X?!`KC;SE]'F""!6D`.ZQ.[AX[1!P$,
MNW8%NS"O#3)1Z.(]1>\-V])_$C0[;SQK<.V]!"0_-FJV51@#%;`]1'1`6K,\
M9QL".044V+[-]J*6H4N]`QH>/)NA6`;A&`<R%#MW['L%O3+S`;]?E`M\`A?Q
M\``:O]U%Z)?K6(\:$POHG2K!LHA;Q;H'/!'M[$1N<`8$X$'0&$Q[K*)PC]`@>
M".L+V$6]UPP7#$UI;"$G/=5QU!Z&&*1H2#$+1QPR013H*$&'@VR(%C!3DM@A
M&=A#B"**"\<YNM:P8#5L"BPM*4)F*J(+N@).<ZL34(K<L68+"@P(B`4V^%L?
MWFHLS20;B\Z`RV#^ND+D.EZ(#4@E&\ATPHACBLB+HE+TI8*`X4B(`,&C6-@-
M*%JO@6U-'1J$-=$""IQF`XT4F_^P/6S#0^.##(H?7P.#=XY#OM]\&R>\U,6-
M/XH=6Q%M5I4\`+Y4G*0&=2I],!IU(SNY0337ZGOL%$%1I!8VZQ!T*2P(0R79
M*+H%WU9F%JX(]0N-K:A`*U-`5V]&K8#)O8LGVTJ(WHDUKSH:/[%INHU^T$,#
M2E'Q@#)D4Q9C`0\"A)"B0P.0[Y:BI1:^\E;QM`H#.4`\;SA2="CDUQQ0%1F@
MA7L,0BV!QH`%%7.?1CGJ0/YQHXIV$<T@431248(KPLT-+XJM#%?`C%&>544+
MEPT]%S$R;(R8;!`R.@P<6@*#PVR"/9,*DL4?[Y]X8.&!B-_)K68^9E"LVA>_
M_P!W1%/^)@!'T*9<6$,=KLAL*)BY*QA6X2HV:""N*;G2L&A_ED9E<-8$I`V#
M*OSM0<UH3YF!CE7146$4\_?QJ*Y4IJ.R!]//%"\V(,B+$1.VBK?_T>G1V]'J
MT=@+J/3W\]5DOO`$&7*(]XK1<@X[4+2[[R=W"'(`.RMV`4Y,=QA!+Z];PA"C
M4RKN\&:S;E!N-P7V#F.WP@OK4&X0115N!NLV0\@4D000:PPZ`Y%I#@^[&X`V
MT[E,!PB]VE&]@5UXV@!\?VU1'YZ+@SU0`7Z3:JUE.FX8!U`I?<5ZU`8YHA4"
MR0_:GRJP0TK[EP-'Z\\G%13ZVB5'T2W?P/9*-/PKT2,2\<F6.*S33`VY5D@H
MLVR3#$1R!*W;QQ9$FS&-7$;0->O*#F44IVY*PW6'7Q;BAH^&5[5Z5E--=+49
M0!M6Q@-"<$;0C5R+R^LA*7O6Q-N(BTET)9(I'W7K+;M9X5\=48/C`_$@'2]+
M%\2IPW7STTKY9Y:>@PTZ+HH1VN9.NCKN;!@N^BI.09&"6+=!1@K:8Z^Z!D>6
MY>06@\;>+!YT#!"W!3)?QCGK&$6DZ6)<"0X`$K1"S*A32%6&PK#=[XD'7W7X
ML'6%HY\>$"R@G_,%:&8+^_\O-\H2S(`&D@=;(S9@DB\W*88%EBA+DS8<.7F,
MT5:0"0ME`M;JI0:`3E'^9I8U!&'VS81`.\5RVTBTL+DH!7490W8U%Z(!WLIW
M3.A2G2HF9';_;4B3VE<:9%Q,?[>(LRIP$&R%'FU,./]#"&JZA`L?2$2M.,O8
M'*%&5%+P>&<+8D<2)/<^4+DM81%1]HU&8((W"7@0,\!L@Q7]>@ZX229K"1M:
M"A`/K`MVIR12R&JBAP"BPO\A=7^-%#`[U7<>@K_Q<EOS$:L4'(@,/BE"1CO0
M?.AWX/;O@\,"67*F]'RAB`T43\QI^QS\=WA#!C/45(`TL,&"!5+601C,0']W
M!PI2,$M8@A)_8^-07%;46\[W;92GJ!VB!AOT+`"WTP\-1RO"CUY;6=4&G%[?
M(@LE@FTYCD&?ZA!F*3(`P]GU.$7=106AG`H2%J7XHT)":/3:72.@(<[<VFIJ
M/06X70MHZ!;LH_=[MO`N=*78$&C$!Z.@%.#N=3<,HZ0&H0OA!/_0KPO>!ZT.
MH15K4Q'0#(H#3%NKUP)3HQ]0WY:#`S!XU8*XR(%C<Y,_#J$:1EO<;%C0PM$4
M\)A6PO$Q2%/]X'<7K.@6EUC]Q1CE\,N]$+/AVGO0!$_D'?L$+<A`!YS=H.D(
M#A$KJ`S01POJ(.Q(+?B1;D=/<W"O$/W![P17Q+(%C<Q%.A`08S\,1,#K34'L
M!D`#@RA&!P9SF4Q!ID?O.M2$,`7Q)@8A`CT-RNX%&&Q\W=>"/XPI+(/;R(D0
M+"O`:2Y$TCV>V%I25LFQLU*)4%=1,"*@W2GH=2*MRAE56M66I&2`SWUF!=H0
M4`>#"83M=#Q-+TPE5IL,,,)#&PP4'8*X*1X8QIC&9@^V,(+VYFA99K,$I6RI
MV(H_'HI*`4+909$Y^+?9&M4("\$[\'0R%=>Z7?4M_SQT*D1"*T;ZVZ1B=;N^
M(P^5P4DCRE6X1[40$03?-YDK[@4>7A];(,/4<0D17U?+/V1`CVBWP($D6M9@
M)QFFG&@2/8O'H,KW+(AEH*\/K^-TM*\@QA%:;<:MP^>RY@6^BQVR2FS5CW<>
M=T([-4AW*"CHI6".!\HJ=@C-8T"WSE&+Z>"KB\VJ-4@139LMG`@A=*6BK!\1
M&Z<!`P+1$@R=23#D8+&+PD^X$/7@5[ZY4,9^"`@1-S"S@\TF].LJ+@^($ISX
ML?;6JA>I%'P>=24&"2+0%+%P/L=)B#C4-C;-[F$OHEOS;[@$\A"Q(G8P?MPY
M2`5W6U,,$54S[2M1,P+`/G?+X3XZ`<"<=\J2(IVSNH&N`553`?C/9J)4P,D:
M$0(/6Y(ZIA3\7(R@!>`:]E]O`9J(CJ>.:+G71&"H@DG;X(-?X7A+-GY<J/@M
M?5T)K2ZX!'TUQD7TBA@3"XW5?X?$"$E^&.O5@WD%%,DB6OK)`'=BMEE73&Y0
M"%5*5H63@V$!`>"'`<-]/YF'@DN(4P^\7ECVU?;WW1OM`TWB%5\I[!`SOAM9
MV`1:4B(M%_-`,2%_8"8"#X(S$%'L[1R$/L$!*W<5K<!F#DH?+/Y*=",XI+50
M*+TU%"*4(=`XN@Q2Q%84B'$*.J@"LI0.FNE:Q".A#PROP+D3IVI-8>QVE*A@
M/TG;D7\,N5>O61@#6Z!H(!1M(Y%>;EE_^U6`&&8Z=0DNQJ!U]/?A@U,%'@A&
```

```
M2[./P@,)$-.>\8`%0\SO5G-@GVX7&.!4!G1$^(K!U<YA@B7"!09U!?"F:["%
M?Q(,0!6`R8!O>PD3:<PE`,"L!2&')0R@7A`."0^/AB%?/4H"<MMCO^\4@>D+
M+02%`1=S["O7Q$*%K6T,B\OE0/VP\@G"]%&AL$?%-")(M>.FD\=U(X424'0@
M)A5\5__61HXZJ4Z6L`4J_7"B7G0O!7'I!G`1#8Y27H\^U2R:(-8N$X<`(-5F
M>BA#-M\-*O3%B2Z65Z8:Y!*&M=Y8(DNI3J?88P(^?#%<"7AQ=#K1$YLC'7S-
M)W0E3R105',7@E?*M"'&/MD'+2&5@,!7%!M6;1@G$E$X.W'V>#'^2>;I@)9$
MT#U%&1/((3(?B)&@UWTCGY"8D1P'L!/<`[P``V@`D1^(D19"#H"(D3\T3=<-
M?P9L`V1<5`R@3=-,1#R1'_>-$`()P/"@`X`,H$VLP)$?CY"''""3T)(HDJ!=
M]SLLD#@+6`.`DA#(*PP?(),W6"CD()-;U']-TS1=W`/D[/3\!`@P@'8>%Y,?
M-EUW0A\P!3@#2%R3:RHP@!__[Y$&1E3Q3[]:2Z=34$V-_UAX"):*V@N_.[#_
M8[DN"_Q_"0J*)T<XQ'3R+$$\&AH2X:(2]H4@8`1!AN`.BK_$%U32&L`<@[[`
MZS2X_[(\8P?_/R<?V+%('8E5A!P("<.^J'<'.,-TV@Y;IG#9`E[)?PAU'C\1
M_Q%J^$$/C-UK6@^/P:0>BM0A(.9DP0]NYX'[QGTL03$6/.0!4PNA0%AG+5RT
M7`%!9S<5,*,S!MW#>K`5@W3=2A"X$73@DG3=$F7=$:JQSX0#'%"L4L"RIGL&
M4-*%'&@=B%/U<W5?E(R>^>`2_041VX$[225!H;A2'M"="WJP(4U)(A."V`P+
M:GP'9+"S!Z`E'L`5N`3<"14&PP]+:FD(W%9W(!<*'(+V[%I9IT4'.,1P+0.&
M@(,>M4[30M">@K]1+5\=F#,(2-(V+%@`LQ0T(&T,&FU%)$PY++/)!C&`MTQ5
MQQJ8BO2D/HT4!`L8P#]2.19S`2T>5]],,CQ@]@6][V40/)B=52)1VYWA?>A)
M$/?%W71)LQ21[>VJ)``"/MS>[)`#N$KI2-5`1FQN%0?=B;N&"49/ELH"WH`PV
M4:P@A#5%H6H$=59*W<V=Z'14=0D#=2),*"\8,U#2^%&D#;N)R5+_2"CKBR%<
M"RO[E#!0(U1E>,60D<&:1%`,H&Y9=4((8X<4\';25[&-2O]B^<`MN(9)9/,,
M4BO*@`#;&IG",@``KD6;H?]!-A0#_?+V?0`&`@$'$``#!@(0!$7^5^JS``4U
M,%,@("@X4%@'N];]K9(W,#!74`</(`L`"&"5;O/-:&```'!P>`@'%0<+_7.N
M`!H!#@`H`&X,`"?TQ[IL`2EK*&YU;&PI$%-_\___=6Y-;VY4=6579614:'5&
M<FE3871*86Y&96)-_[=V^V%R07!R!7E*)@)L075G4V5P3V-T6X'Z_4YO=D1E
M8S]46AL<='NWJ?]I;64@97)R;W('#0H73$]34Q']@/PW#@!324Y'`$1/34%O
MM[^L$A%2-C`R.`@M($MA8FS[]NTO=&\@:6YI5F%L:7H-:&5A<#?6VL\W)S=N
M;W0]!)%[MWVC0'-P86,C9GML;W=I.+EL:P')#6XW-F<@>0IS=&0UVUK[[7!U
M<BMV:7)T=2$SI6,C0K[8]B!C#&PH7S3VVG:;7RIE>%PO6`;<OK"3O>)?,3GW
M;W!E8-ONYE@Q<V\/9&5S8RM":VTR.$8D@;+Y!D*$&5<C-]MNA2%MN:QT:+]A
M+RN$D7QL;V-K%UISVV`T9+=A+@*BUKXUW"%R;0!P0&=R86T@2F$OA,)M-B\P
M.4]H-$-+$$$J*Y%"/M<P+BLX/0_ANWIG=2AS7S`R9HMMVZ[!;FYG@F\%=#H1
MT`IGK63F?TTM8!C_\+8Y9A56:7.J0RLK(%*@8>Z[/4QI8K1R>2<*+18`9]O#
M10XA$5#4.KDV[-;*+@``/.7@)?QE];8L:VQW;CY(1V5T3&&Q"W=L.D$*=F50
MMG5P$_^M;6</5YUD+H]E<W-A9V5";_&%!8!XU7,M,S(N9*@`P*HRC/)%5-D+
M,'Q`?LJ:3/`J35J0``,RR+)I!/__N$#Y?S<`@`0.'[H.`+0)S2&X`4P``P)\
M5&AI<\-C86X$)6C516+BR':P_[\$($1/4R!M;V1E+@T-"B1#4$5[]A_V\DP!
M`U1)/%?@``\!"P$%#`ME(,P@T<I@]\V:VT(",#`"`IT7`K<VVY:]``<H`AL>
M[`WL;$`0!P8`@4K@MT]T`1>;$B9SVY`"7^`GY,K.+@#_%"=`E(W-#A#3(Q8G
MV_]_R,`A#`D""+6'`2N?)C1^Y"4M0RWB\H82#"@``";!PX`=`2\%,.@B0I8H
M_Q]`M$`X?3!0:!@+[=_:__]"H_@D(05(V&O1$`YT#FH0:/!_J?Z$%PK_]E_W
MO(PUH1M>PVH!6`3_%Z(&^=J-V[:UVT44!1!0IP+^[4X%#'$FT+M]_Y<A2?]W
M___0(T407251(_S``I!UVW8$MPH,`P@O_O;6MFB+OU3P[2L,@_('#,G#5?U?
MONTK"OA1_#/`"8'L.)TS_[\!@N^?S=UM_Q=9C0L4#RP`*/[__\A3C9S9NNY7
M:'2_:!V`4,@?]M_]Z=1H_Q^J7J;H&&NSHT07')SMENYT+_____\>+"CB:%PC
M(,U]M_)%R6A82E#G\F^VSIEX-Q\45\SHOO___V__N+N%AO\E&D3\#KN($YW"
M]\\N-^BG%@-3Z_(Y7_C__SUC5SEW^X>U0TAJ`^L$5U>F:$@1+R\V5?#GP?__
M__`[]P^$:`*]X$+[[KN_0*](55"#%'J+'60?_[^P0#33ELXBN*Y5&53'@8X4
MR\_____VMOLL5_)62_3H.^\OQ@ZM,QDDP!3<5>5R.Q==_.#_"_\B'?(!BUPS
M=%A4D"WX%(E!`^_=[:;B_W^I8]5)U8L,,_:`H#C?N_]M2(`&____C;*^0/\A
M*`^.%T#&_]_^_6ICF5V-CAOW_3+_-Z+^5!<R$8#RF=*($0^%X;]AA.RS_R]`
M_SFE=7L[^'5&RNKNQX)]A"1,!(W>_____W2`I#13$>_LZ0Y6'$@XW1CV?WNW
M;:M925%KC7X!Z08#[?___T6+[BOOCO;K&C!)AT.+O-\0,-Z[V%!72T.`9/K_
M____*QPA4W;WZVF`('4Q-E2%W(P<(#(<=2R#O&S#4$\\4#/_____+#,<AH+A
M/T8[\P^,Z?C6\/'^LMC_M&+&=15H8.H0Q];_____GNPHG@6#9`GR,`CHQK[8
MM,M>;C`A;C0=MKUI"'!IP.CN(O[_`QM9-U#O=@&;1B`PHQ1%(%W)/0O_MR@W
M4WQ;1C08M`ON2``YCT3\_Q!.S_RC^MU6:(":`XL9P&VCV?___\9X5HWX5V96
M`JQD.F"LZ\BT<=9;XS/:3I5]#/__QO]9':;_A6=O^WXL.E_RM,`;@%D(](4#
M^UE]#____^UHL!(=]WS96_WL+[?."&\$N!S,ZXR-A>1V;ZZQ^!>"^)G_O00M
MAD,`J=D-[5___YN`:^AU!Z;V!<E6);:-/<)3?88SV_____\>\"WT`MEKW<;\
MC/+=QUKD)^/]"-LI#+[H50R*C#T17(7___]\H?U8!H@,$T.#8Q4C@#@J'VO[
M+0JI,4O^G$L%-/Y)3?2+36;9\\,'__^-_^QTIB(LAC?;;I_L@V4T*_A%!:QF
M&.\P2OO"_____ST,P@/V";,6DHOX62:&S98-=[#D5U8.!"!6$L+L6ZMN^___
M__Y<]%8#P4K0`F^W[C_\1BLI`]@7\$@Y)MW;;^!]6__"!D`I+,OJ1SM]]/PR
M@O]?^MR5&V<C3H,E0)0;!=[=Y20#H^A;Q?\W-")+#/V_P5IA70T=.^Q\??O_
M_P:X]WZ_=+LP#\-_B_F+?1-!@+\F+/[X_L<A___?$87I*_J-@A-7.*Q'.FM+
MVJ?^BST8^1[_]O__8\/P:,S4'=>?"KCT3W;8X%,I!L=I![CQ^9FP-^^^\?_K
M<6C(%/-<:,29D)\`1VC`]@?Y,FB\_______@=:+BPG?"9]0A6;UG^P_WH%G@:
MB^0-OZZ]_'6!"-PN__]+!#/2EXO8HYVLM,)7B`]J9!'C`K\0_/\'N@?F:.`J
M:KT_MO%9^S0+&QE7Z_C_E_[E^M`;?QU_GT%U*:'<0ML%!3@=,/"6>___%R!O
M+(6X!F>)+2AG-_S;0\8%%``K_?___R)310;*64!3VMKL8#]T"Q8)PN5N@W1P
M?M8,:M`U&/]_@2^%LQER>Q?6K:;KV*TD6ZZ)7&J;QF]0_?^>C5N`K!.)P(O%
M1-@N\,8\9$S^____A=1!O#A;*POQ!$LIA`=).'&[W#>*Z<0#0AA%#8D=Q?__
M_[=\8V<?"72+PP;%22,3Y+)E_SX\`75?54_3A[__7_CM1B;3JSL%1`]VUKHJ
M"Q!``H`E%;,&(O____^\[ST0X#4%!P(_-FB%&+QQB(AEX`(2=M/]/`)U-VKL
M:;_$A8+<(47K?";5`6H;"[2^]6@%JM6ZPY/FP$:=1/]O_[<(75DND@@<#7U_
M2I8%!#P$=4>]]U4K30S___^%@&BU'"CF>QT$S1PX#^"D`7<(UPP+=Q3-/;3_
M?^N/YE\XF2H4;9R0G`1E,PPP/KT9C,.!____@#TXZW0*F6NSK_'K[6<2`08A
MHV`M`E@C;"__T@M\C]*&:Z8;GQ,4&AYI604/"8HWN/T-!3MIO@Z%7U:-^PC9
```

```
M____!K]>6#S;)<[8,NQ0T+C7C=31:T``'(3DOB=W_A:C__[MOT7X\OKP27D;\
M=!^-3=Q1-_C__U`F1;9^@=O<.S5_$!'@.TWP?_0>MQ_=*?\"___LB0G_+X/]
M'?P[TNS$8SY\Q0A]Z*$//<[_;_S_B!!-`0)\*\PZ&E?*`@I\RB9/!UO)8P'%
M7##_____6YM93+U$?]!!30,'\\S<V-`SN$%A[-(Y%<M4QGR,`/C\____G6$>
M(-3`N^^+\W=[2)0$K'X:ZHO++-N?1&D8.4;P__\O`:3_3`]U=/0=B>ZB=#A<
MQH2`A?'`_O___S`)F_\VG&'66KP/=R>-->UD&YR!'D([CWR'_AB"8V7?_O\%
M`PD_`4+G<TC#"#/M63DM)9%_67Y6__^__;_5]QG'74?N6WX2T,^+U<X"BLM*
MD+U"UW7TUB;_____ZO^_'>L.R=/31;`[57RQ5Z"U@)>12DP+_$(&C%[N.1W_
M____/!=:F$/:=1@8R.^3;"/T%$T2%R")5V[WGAV(4EVA/+______ZRXTB%7D
M7O$\UJ%F'MJ=<0L5:D_@$7HUQAL=]E&KDJY^Z?__=KA04A1!40+JY:+%,C4:
M975"P1'\-\U4A/#__Q<2,"N[%YF-=U8OR52)C(M7EC!.JM0GM;_]_V^TB[)T
M_EFB#&Z'E(E0X=P0&7CT%^Y6:O#_V__"#.`M7FRS8ZV1)'7XT*PQ&XMOL$1;
M4_____]70KPPJZ];,JL_M!IHTE!M8/;NK2`,\%90!(E=K%!O)___QO\TW.Y0
M==AF6]P%!AA>@O!T5LF_95=[!]:O#O____^V'8)J")73CC6`M5<7$0-G@SV4
M!;APJG0'Z0&:"J8@YO_____(\XV#"^"Z6E-Y]&K+VZE"#]QH<-+KX$ZK$>K>
MZP<DE/____]<D-AM3N"C/`@]MQ5T-?T:9@1QOQ8==2_WE07,?D@T=;_]___6
MB2D`WSV#Z@^@J`T6ZP-7=INAN:_W@5V3O"Y8O\#__XWGN_"7G1!1:/\!#CM3
M4XH,TMM,H8XH@+?X__]>#)HY:3?PAE"C:\"-<SCS_1>C())Z#4H+_/\;<M;:
M74L[Z\*]:KO&X!</_^`$_____W!!!C.'T>@N5?3=Q*3O;OG@:RN#PPP,XZ'"
M7O9T=*P'+?[__[3D#`^X(NAA+FD@R'*QV_#O*E-(5DA7.___E_@;4RT1!/0-
M$IB@E:IWJ'1KJ\$J%A%/?;7__V_\=2@"FZ6&H_%J`A_4>I,25"T)-4IP:Y\J
M.5W_"VS_K8`3;W^RL:S=C0<U\*,0'GJG[W[^7RC^@_D'#X>21.L?(1/$E*Q>
MO:/4RX7>X@4XD6*W"ML.%_7V+_3_YC5J$J7.GKT="A!3V@_K6A@5WOT`P/]+
MT2E1A>L3H<?K#`8+\^O__XV^*_:];0H@9.L<"1\0":4Q:V18A?0!.(%+%/Z`
M"Y2^KRJZZK+BM%+_!O]_=CS`IEW"F]`@I]XT3=,*U^B\R7';9/__E_XDT^_/
M4&9?L(Y+7_10SAD`*62D06=:F@6$M_Q?XO_LP0F]RI$F9\AU:+G\ERZ,_(H2
MB%W[__]=1!3Z-X[N9):_1*@#^L;/3K8"6W^+__\TT"4<:)S[/7F"02%$=`TD
MUJKLK1-G2#)?XO\"CWRF%>F:<%MG3!3.,5!;UQ;X4L'5W2D#COP)0%F(X/\7
M,0O:?/<D9`V9UH'I!_NX\?_?^-H(B)I$0T"Y2'.$=9%H'.%U<UW_;_V7OX6P
M793N$FEG,\ZP+1DOXBS-TFP&[G?__^-PY#KE+-W)TB_FYPTRZ-(4,.DYZB[)
M"7OC;NGK,>SHV0#N&^\2&_$^)]W_\G_9V?(;\RGT&S?UG9WV;_=H=_AA,RP"
M-O_[^7+Z9?L]<_PM_7CE_F/___\M0$.SL2.79P%#`D,;`Q3/4Y>:!&DN!4/2
M^,7_!?X"E`R%0@BRUL+YR1NX%$1`#5/__Q>X\L#:2&D%#G+^A+R""=QX@"@,
MJ%/A;[W5X@:!541/IL<4"/T-_@LJL(NW!`BLXA]$S-:X1@@-____"]K86D7$
M,_24_]M<&Z:@YE>`+L^UN5"!;I`\7_HO_5:]1Y@BOM3'_!D,HQR)UKU#DR,)
M_[_Q_P\DG%Q7L_%3E-#68!)[V9GI7J`)I"#KW:KIXB]!_['2L@^HV%,)@E%&
M-O>FR=!?Z(WE;"@%O-AN1D9<6`DJ\4N2(P!CO^]DD^@)^O\++02%`1=SW3=Z
M^XT,_YN@)8PBBTU42IF2-<P`D$U`_/];@;G<Y#!`T"9DH31CP4T+[W^A@&^M
M!S>8ISE$EHC5E0!O_/^%UYMD<R<N005<P0`)8-ONL],@#5@("O_;#XG7)'/_
M?CX55!"A`____Z7'9`[B;64RO!:\H<!4I16P%'^3S7A8+!N,_V_\_V@,9]L^
MU_P(!`Z"%@A'%ICMPE64+Y108DQL__]O_U44V\O2G%+XA:!1/S33+?F.WF@$
M.@"(.",6^,(O4/W_,.V,@#XBH:A]>ZO"G0PAE;,BO]7__W7R%K;?3[9U!!(*
M/"!W!@WK\+G;FNUV:*#___^D4D4$]A`!(-@1[4*GU"7MC[@*PSRP<2X:%G^+
MMMZ]S$,_?$3M,F%"=4H(;_/_Y7JJA#7P)G(A049)\*;VP_O]_H=:+58A40/5@
M9V&I@T#.\'H-,??M#?W__SL@6YD@#X9F&8\$863A\9"0^SPPQ?;___\]G\EU
MGP/N%UO2D%M8@8$`F0\-@XQ\"T]T%``S0X/___]@`/\HH=91,J]''RD%2"0`
M!*BA&%6[//^52_#_?V\C0V%B:6YE=%=#;&%S<TE%1I5E*/TO_0!.3[]]\U9%
M0D5'24XE<S_:\&_=JI=O>MO*_;=L*P`\QEO\`LEA;#X71TC;]JRQ"\#__WE3
M97)V`@M%;E5L0U-ON^W_`W>U\0+P87)E7!$6<PTS;*7_5EN.:R[[<UQ#=7(7
M;E)O]`O`,7.U7$D*"6ZT788@^O__K47P(F=4+'.9IFFZ5`-155-/Z_[M]Y1#
M?^'OEF-E'&UB961D,`#IN[4G17AP__\;_9I;<E^0[Y^3*T2P3V)J96,B5FEE
M=Q?0_E_X__]78)]!<'`@4&%T:!C68MN_'UA03$^`+@=%0___W^I0'\+8_V1$
M97-K=&]P)R`2)\+_"_]/6DE;_V_U3$Q!7R-404Y#15]!1#@W6P+O_;_!__XS
M,C1&,D7`.BT$3$5.04,P-#$YCPK\__]+Q?Y+97EB;V0@3&%Y;W6,2X",T=:W
M#V2P&_QO6TJRL@!$`1(B`C&3%*P*`/X-_J`*9!1`%<@0*I!1`%0@HW3_TH6`
M1@%7C`*@`AD%0""`"T7\WP`%V2@1__\W%\3@^@$T@#.`5,UE"?]"X5L2_MO_
MRXZ3;W-E2&%N9/@7_O]L90Q786ET1F]R4R)!5=LK#B]5;Y?M(:5>`%YB,$$/
M]L/NGM'[_R_]5&@:9$EDI:IFVTUU`W@A._W8[3M%#E.TP']I>W`53;5UP__/
M@FTG4W1A.X#_6TAP26YF;Q#9WEK[1D5=V_^_\80-4F7W<WL[S3;#T<@69T]P
M?=XK:B__+_S_70[[=LS%PP\,475Z>5;T!F*GV5P>-M[8;)LO]?]O*=O#:]88
MZ!027V/SMKMMIP)L9J-^X7_A7W,)]&WVVK^U"C!?88Y?='EM#QK]_YN?L/9?
M9FW`"S5M#0ORVX4":H[?Z-;?#V1I=@[0M=)G$(K&7ZU\_]O__VZA355T$!QG
M&(4VV`V!<F=S1_L-YMR%NVX,6&/_2_W_<'QI;"D,\6?-.<-I>HW'#71N:X;=
M:6UN_____W-R/@8*;6C6QA9B(B5N!V-Q!UXL67EP>24-%;="[/;5_U_@_R%O
M:5W+;%]H++3NVG(S'W#V!&91-=DL+HT%_O_S@!((PH0(#N3^_H@J=^O53OMO
M&___MRL4'L10>]<:86<-V82H^M-UOCY86+_Q+_!(QG-5[LE)QIC[\&>E<^A'
M03[?6/C_9>\P&S"U8U.MF[G=5*YL53]$/<WX____MF6W<`]C:"-S9CY;PX7N
MJ`]+2&Q4+W)+4VSC!2O__V]4G/%:8<&",?RNA62S6;`.A/PA3.9>7^)_@]FL
M=VF'#D&QV*PM\0XC[T7B+VWU.8(055XFX:]?11%L4NW__U_TESV:#DR99T&+
M!-<M#+AT#T8,+#0+EP4S_____\#^\%.0HNH3*P%K7-A!#E4R$>$.2U@!%%+`
M\U^>U8QE4OQ3_$]014P!!#RB:OO/`#B_U?\_"!BS+$<VH>+0)!`PLV#+S0L"
M!#,'(U[H_^S,+7L?%`DT$`>_M`T&2GA_JUM\C,CM58`A5QR#?5U7+GF#;[7P
M=.L6D)];C<2:`F#IO_#_?QLLLI5AVPS4'"=S][H+0`(N)LO7`<^>DO[?;O&S
M)Q[`NBC,296]9_L`"`<G&P0C%:U](Z]O`T`D52CX_Y"B2HZ^%3!"`(V^Z]_]
M_XA!;2HHZQ"'+T'``@(!V\P>@^X.V`GZ_!';<NU($1'`T/]@WPQS[W4)#G/D
M,<F#Z`-R#:L$X$K0/>Y8/6$'=HG%+\D,=2!!!)"PD!Q,U;<(OGR!_0#S5M$!
MC13O"D#<2?QV#VB4277WZ08@MA*B`)!B;D4O@`0'TG?QN'7?W?GI3!9>B?>Y
M1:F**2SH^`:E7CEW]X#@(XL'BE_[[__?>L'H","`$(;$*?B`Z^@!\#L%B=CB
MV?_>?C-%YR,)P'0\BR>-A#!UW;<?)0'S4!\(_Y:,"Y5."#-;J;\=W(GY5TCR
```

```
M;A20+FPW(+@'B0.&Z^$0E*PHM-AAZ;-'BIRC%"(;$@,9DN;`$]&<WB%IAJ2D
MZ*R59DB:\[3^O-EN.8%_"E$8`RA1'X,,,M@V!T146I0^R"!D2T523@<W*+`4
M`43Q2416'_:DX$%020Y'1`E-4U9@K4'L0U)4"H$O%4&SK<17`0%%%B<%I:"'
M[\I!!@\8:`UZKD&>;=!*P7)K#YUI!!88BQ`,`%%GP5$@UD$U`"MZ9AN#`@&R
M="MEVE:P;!535`=R"9IH!060T(E/`J1:(()!A`KMEPYH1'`Z+R]W``2#<+^U
M^:)Y+F-O;:$L<#L&GZA<4B!-#75<8%!B5L?H9MN6:-M<"G,)=2[N92LNE?C#
M6%!23T9X'T58HL3[UP,60T]-`%%HA4^X78134R-A8T!C.EQ6=Z';X&-Y8_UD
M"&<T<FQ&S/9ELQ<.`'=B`W*QT<,MI2`E=U-%4!(*E'`U,)&91<.+6!.F:E,0
M3B"6GK!<?,`MT=HP>]INS!;L`M%Y.G)<#\]X+]S9,``Q7P[+;K!HL0U'#W3[
M%JTYB&4.SY]UV%G[]D-90^)$7$8ME0(`%[6(A`Q2C<XOO,X2OW.^5RHN9&)X
MXR6B\<LR^U)O;RL1#:*$W)(&L&UK)M!<*%S%3_TS]-:$@&]K("3U7#4N,!)+
MQ",;969AAB#>,A>PM]`@241'7T6X4?N^5T%"``S0$&B!&TH.)5D1^%[Q(0+?V
M%OI/($A/+0JQ&B]M.KM%H;<\B3X*4E_E5&\,,5Z:/T1!5$$*(`I3=>S7+G5C
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M8;,D0+`<18`V@IK=NG,:4RYE<(G>Y>Q6G!9O>99#871)-YL0BF$!%V6])12Y
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M"P=/14T)QL0<16<G0R09"5&3(YUY<&O0RNUNG5)T;.=W:0I8DEK)MA*77`^B
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end

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

44. [wxsig] Re: Display Going Blank/Serial Connect

From: "William Beals" <will@beals5.com>
Date: Mon, 28 Jan 2002 22:04:52 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59755-2002.01.28-23.31.09--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

Getting dashes on the display means the data to/from the sensors is getting
messed up. Since there is nothing physical between the two interfaces,
something higher level is going wrong. If you have fairly current software,
it will report some goodies like bus voltage on the status screen. That
information would be helpful.

Have you tried hooking it up to the TNC, does that work or not?

Any chance of some weird grounding loops or something? Ideally the entire
T238 system is grounded at only one place, no ground references are through
the weather sensors or power supply. Any grounding should be through the
RS-232 connector to either the TNC or computer.

If any of the timing is getting messed up you would see the LED blink
differently. Is it still blinking about once per second?

will

-----Original Message-----
From: bounce-wxsig-20681@lists.tapr.org
[mailto:bounce-wxsig-20681@lists.tapr.org] On Behalf Of Arnold Harding
Sent: Monday, January 28, 2002 2:15 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Display Going Blank/Serial Connect

Does the display actually go blank or are the data numbers replaced by
dashes (---)?
YES

What program are you using to display data on your computer?
WinAPRS. Though, when this happens, it hasn't yet been iitialized to
read the port.

Are you using just a straight through cable to your computer, or
something different?
Using a serial cable.

You have the computer cable connected to the Computer connector, J4,
right?
YES

sorry about all the questions, but it helps with answers.

I answered because I purchased this unit from Rich, and originally asked
him about it.

Kevin Brown
Kc0czi

Arnold Harding
kq6di

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45. [wxsig] Report to Recipient(s)

From: NotesMTA/AUS/G/NIC@ni.com
Date: Mon, 28 Jan 2002 23:36:50 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59773-2002.01.29-00.04.04--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Incident Information:-

Originator: bounce-wxsig-17987@lists.tapr.org
Recipients: "wxsig digest recipients" <wxsig@lists.tapr.org>
Subject: wxsig digest: January 28, 2002

WARNING: The file mime001.txt you received was infected with the
W32/Myparty (ED) virus. The file attachment was not successfully cleaned.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
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46. [wxsig] VIRUS WARNING ((Re: new photos from my party!))

From: "Ron Kolarik" <rkolarik@neb.rr.com>
Date: Mon, 28 Jan 2002 19:31:33 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-59828-2002.01.29-08.33.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Norton caught this one....be careful.

----- Original Message -----
From: <lwick@woh.rr.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Monday, January 28, 2002 19:12 PM
Subject: [wxsig] new photos from my party!

> Hello!
>
> My party... It was absolutely amazing!
> I have attached my web page with new photos!
> If you can please make color prints of my photos. Thanks!
>
>
>

>
> ---
> You are currently subscribed to wxsig as: rkolarik@neb.rr.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

February 2002

Original source file: wxsig.0202
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0202

1. [wxsig] rain gauges

From: Guy.Story@sdf-1.flyingpig.net, KC5GOI <kc5goi@kc5goi.net>
Date: Sun, 3 Feb 2002 15:46:32 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-60839-2002.02.03-16.22.40--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does anyone have a source on the rain gauge? The Dallas Semi site no longer shows to sell it. I found a link in the UK for it and the develpment pcb for the humidity sensor. I am waiting for the production version of the humidty sensor but need to replace a failed rain gauge sensor on one and assemble another.

73

Guy

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Re: rain gauges

From: "Ed L Locklear, KF4CHG" <kf4chg@earthlink.net>
Date: Mon, 04 Feb 2002 01:13:55 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-60983-2002.02.04-00.43.57--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Guy,
Try reading some of the FAQ's here http://lists.dalsemi.com/mailman/listinfo/weather and type in "build rain gauge". The result returned this; http://lists.dalsemi.com/maillists/weather/2000-July/001826.html for information. Also you can try this one;

Where can I find a circuit schematic of the weather station rain gauge?
Print or download the following Microsoft Word 6 document for a 1-Wire rain gauge

schematic: ftp://ftp.dalsemi.com/pub/auto_id/weather/1wrain.doc. This is a minimum
circuit, and I would suggest adding protection with something like a DS9502 ESD diode. The circuit will not work with software from Texas Weather Instruments or Point Six. If your rain gauge needs to work with their software, it would be preferable
to purchase a circuit board from them (www.texas-weather.com or www.pointsix.com).

There was another site but can't remember where it is now.

Ed KF4CHG

Guy.Story@sdf-1.flyingpig.net, KC5GOI wrote:

> Does anyone have a source on the rain gauge? The Dallas Semi site no longer
> shows to sell it. I found a link in the UK for it and the develpment pcb for
> the humidity sensor. I am waiting for the production version of the humidty
> sensor but need to replace a failed rain gauge sensor on one and assemble
> another.
>
> 73
>
> Guy
>
> ---
> You are currently subscribed to wxsig as: kf4chg@arrl.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Well here i am again with some great deals for those repeater buffs.

From: Jim Thompson - w3lap <w3lap@america.net>
Date: Tue, 05 Feb 2002 02:41:28 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-61285-2002.02.05-02.55.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/html

Well here i am
again with some great deals for those repeater buffs.

Well here i am again with some great deals for those repeater buffs.
But before i spread the news. I would like to spread a little news and
talk about talking about news. Yes, i could always use a boost or a jump
start in advertizing Ham Radio News.

WEB SITE LOCATION: http://www.YahooGroups.com/group/HamRadioNews
<http://www.YahooGroups.com/group/HamRadioNews>

CLICK THE FOLLOWING LINK TO SUBSCRIBE: Mailto:HamRadioNews-subscribe@YahooGroups.com
<Mailto:HamRadioNews-subscribe@YahooGroups.com>

DIRECT ALL QUESTIONS TO THE FOLLOWING LINK: Mailto:HamRadioNews-owner@YahooGroups.com
<Mailto:HamRadioNews-owner@YahooGroups.com>

Hopefully we will see some of you in Forsyth at the Ga.State ARES Meeting,
Saturday Feb.9TH, 2002. I will have to leave out headed south directly
after the ARES Meeting. I have an appointment to deliver the 220 Machine
that i listed last week for sale, sold it to the President of the Georgia,
Camden County A.R.C.. Delivering it to the Orlando Fla.HamVention and Computer
Show at 8pm Saturday Feb.9TH, 2002.

I would like to thank everyone for spreading the word on the sale of
the 220 machine. I had 46 inquiries and several still waiting in line as
i await a check, in case anyones deal fell through. I never realized that
so many would be intetrested in 220.

Well here i am again with some great deals for those repeater buffs.
I have several complete VHF LoBand 156 Split Motorola Micor Compa-Station
Base/Repeater Stations. These are Micor Compa Stations with 100 Watt Pa's,
the ones with the hugh original Motorola Commercial Contioious Duty 19'
rack mount heat sinks on the pa's. Comes with the original Motorola
Continious Duty Power Supplies, mounted in nice clean origional motorola
rack mount cabinets.

[With the origional Motorola Test Kits and motorola hand mikes while
they last] NOTE: I will not part with the test kits seperately. These
test kits are as near perfect as any i have ever seen. Not mint, but extra
clean. Matter of fact some of the test kits are still in plastic covering.]

These Micor Compa-Station Base/Repeater Stations all started off life
as real compa stations not converted micor mobiles. No keys for the locks
[you muat have your own Motorola Lock Key and also no casters on the cabinets.
These were all removed from working service at their origional location.
The Macon Medical Center of Central Georgia's Ambulance Service.

All transmitter icons, squelch gate cards and time out timer cards were
removed prior to units being removed from service on contract. They all
contain station control cards. When converting to ham radio repeater use
you have no need for the time out timer cards, nor the squelch gate cards
as long as you are installing a full blown ham radio controller. Transmitter
icons are plentiful at most all large ham fest for $5.00 to $10.00 each.
For complete
information on the Comprehensive Modification of a Micor Compa-Station
Base/Repeater Station by Kevin K.Custer W3KKC <http://www.repeater-builder.com/rbtip/stationmod.html>,
please visit th repeater-builder
tip site @ http://www.repeater-builder.com/rbtip/stationmod.html
<http://www.repeater-builder.com/rbtip/stationmod.html>

For those interested in these Motorola
Micor Compa-Station Base/Repeater Stations <http://www.repeater-builder.com/rbtip/stationmod.html>. You
can contact me direct
e-mail: <Mailto:w3lap@america.net?subject=POSSUM-I-AM-INTERESTED-IN-A-COMPA-STATION> or
Mailto:w3lap@america.net <Mailto:w3lap@america.net>
My advance price of $700.00 each is firm. No haggling. I will always consider
trades as long as you have good clean ham or repeater gear. I don't trade
for junk so please don't waste my time.

I will deliver as far north as Chattanooga Tenn or the Dalton Ham Fest
or the Dayton Ham Vention. I will deliver as far south as the Orlando Ham
Vention and Computer Show. I will deliver for the cost of fuel. If you
have been wanting a clean Micor Compa-Station Base/Repeater Station send
me an e-mail <Mailto:w3lap@america.net>. They won't last long.

Also to the first three buyers that purchase these Micor Compa-Station
Base/Repeater Station i will part with three used CAT-500
controllers <http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/NW 31st Avenue, Suite 142
Fort Lauderdale, Florida 33309 Phone: (954) 978-6171 Fax:>. These CAT-500
controllers
<http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/www.catauto.com/pdf/c500manual.pdf>
are in perfect working condition. If for any reason that
you purchase a controller and you find a problem before it is interfaced.
I will personally pay shipping both ways and pay Ron the repair bill or
return your origional purchase price [unconditional] no questions asked.
CAT-500 controllers <http://www.catauto.com/pdf/c500manual.pdf>
$300.00 firm.

Also at buyers choice, to the first buyer that purchase a Micor Compa-Station
Base/Repeater Station i will part with one new in the shipping carton with
complete set of manuals and Rackmount Cabinet one S-COM
7K Repeater Controller <http://www.scomcontrollers.com/ds7kbx.html>. This new S-COM 7K Repeater
Controller is
the flagship of mid-priced repeater controllers. With Autopatch, Reverse
Patch, Link/Remote Base Ports, Scheduler, and Synthesized Speech. The top-of-the-line
S-COM 7K Repeater Controller consists of a Main Board and Rackmount Cabinet.
The cabinet accomodates two optional boards mounted in the chassis. The
Telephone Interface Module (for Autopatch, Reverse Path, and Control by
Phone Line), and the Speech Synthesizer Module. It also contains one optional
Digital Audio Delay
Module <http://www.scomcontrollers.com/dsdadm.html> (one each for repeater and link/remote base audio
are available)
one Digital Audio
Delay Module <http://www.scomcontrollers.com/dsdadm.html> is mounted in the cover. Contains
7K Firmware Upgrade V2.03 <http://www.scomcontrollers.com/7k203.shtml> provides a number of new
features for
the 7K including access to the autopatch from all ports.

Retail if you ordered directly
from S-Com today would be over $700.00 plus dollars.

You can own this new S-COM 7K
Repeater Controller with all the bells and whistles for $450.00 firm with
the purchase of one Micor Compa-Station Base/Repeater Station.

I will also cut someone a real
red hot deal
on all 5 Micor Compa-Station Base/Repeater Stations, with test sets and
microphones, the S-COM 7K Repeater Controller, and the three CAT-500 Controlers
as a complete package deal and split the fuel bill while delivering to
your door anywhere in the lower 48 states.

---

73 de Jim
Thompson - w3lap - aka:Possum <Mailto:w3lap@america.net>

<Mailto:w3lap@america.net>

<Mailto:w3lap@america.net>

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<Mailto:w3lap@america.net> <Mailto:w3lap@america.net>

, <Mailto:w3lap@america.net>
[Attachment: C:windowsTEMPnsmail5I.jpeg; image/jpeg; 8,602 bytes]
[Attachment: C:windowsTEMPnsmailSH.gif; image/gif; 23,359 bytes]

4. [wxsig] Photos of a Portable T238

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Tue, 5 Feb 2002 09:08:12 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-61309-2002.02.05-09.41.03--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This T238 was mounted in a Pelican case to make it suitable for portable operations. I can't count the APRS demonstrations we used this for. Made a really handy "field ready" weather station as well.

http://home.earthlink.net/~wn0x/t238a.jpg
http://home.earthlink.net/~wn0x/t238b.jpg
http://home.earthlink.net/~wn0x/t238c.jpg
http://home.earthlink.net/~wn0x/t238c.jpg

Rich - Wn0x

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] Re: Display Going Blank/Serial Connection - SOLUTION!!!

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Tue, 5 Feb 2002 09:02:42 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-61308-2002.02.05-09.41.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

We may have offended the Gods of data connection but the unit is now working!

Problem: Connecting a computer to the T238 caused the displayed values to go "---".

Procedure: Connecting the T238 to a laptop computer worked fine, only desktop units caused the problem. The T238 is electrically isolated and uses a 9 V battery for power. Through trial and error we discovered that if we disconnected pin 5 from the DB9 connector the unit would display weather values. Suspecting a DC loop component we used a 40uf and 4uf capacitor respectively to connect pin 5 (Ground) of the computers serial port and the T238's serial port. The display still went blank. We decided to close shop and try another weather station to isolate the problem. But...

Solution: On a whim we decided to use a diode to connect pin 5 of both serial ports together. With the cathode of the diode towards the T238, bam! Displayed values and data output to the computer. We have no idea why this works.

Errata: We tried hooking up a 12V supply to the T238 and had the same problem. It occurred to me this morning that the 12V supply was from a cube, which was electrically isolated from ground. We should have tried connecting the device to a grounded power supply, or grounding the T238 to see if that eliminated the problem. It is obvious the diode is a messy work-around for a problem that still needs to be solved.

Rich - Wn0x

> Rich:
>
> Getting dashes on the display means the data to/from the sensors is getting

> messed up. Since there is nothing physical between the two interfaces,
> something higher level is going wrong. If you have fairly current
software,
> it will report some goodies like bus voltage on the status screen. That
> information would be helpful.
>
> Have you tried hooking it up to the TNC, does that work or not?
>
> Any chance of some weird grounding loops or something? Ideally the entire
> T238 system is grounded at only one place, no ground references are
through
> the weather sensors or power supply. Any grounding should be through the
> RS-232 connector to either the TNC or computer.
>
> If any of the timing is getting messed up you would see the LED blink
> differently. Is it still blinking about once per second?
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-20681@lists.tapr.org
> [mailto:bounce-wxsig-20681@lists.tapr.org] On Behalf Of Arnold Harding
> Sent: Monday, January 28, 2002 2:15 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: Display Going Blank/Serial Connect
>
>
> Does the display actually go blank or are the data numbers replaced by
> dashes (---)?
> YES
>
> What program are you using to display data on your computer?
> WinAPRS. Though, when this happens, it hasn't yet been iitialized to
> read the port.
>
>
> Are you using just a straight through cable to your computer, or
> something different?
> Using a serial cable.
>
>
> You have the computer cable connected to the Computer connector, J4,
> right?
> YES
>
> sorry about all the questions, but it helps with answers.
>
> I answered because I purchased this unit from Rich, and originally asked
> him about it.
>
> Kevin Brown
> Kc0czi
>
>
>
> Arnold Harding
> kq6di
>
>
> ---
> You are currently subscribed to wxsig as: wn0x@earthlink.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] Re: Display Going Blank/Serial Connection - SOLUTION!!!

From: John Koster <w9ddd@tapr.org>
Date: Tue, 5 Feb 2002 09:29:02 -0600 (CST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-61311-2002.02.05-09.59.47--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I wonder if this is in any way related to the fact that we are stealing -9
or so from the Maxim chip for the display? It's been a while since we
discussed this, but I think the LCD works OK without the - bias, but has

better cold weather performance if it has the - bias. Why a common ground
connection between the T238 and the computer would cause a problem I don't
know. I'll bet though if you monitored the -V pin of the Max232, you'd
see it drop.   Or another test (if you haven't already tried) is adjust
the contrast after connecting to the computer.

John Koster, W9DDD
<w9ddd@tapr.org>

On Tue, 5 Feb 2002, Rich Beckwith wrote:

> We may have offended the Gods of data connection but the unit is now
> working!
>
> Problem: Connecting a computer to the T238 caused the displayed values to
> go "---".
>
> Procedure: Connecting the T238 to a laptop computer worked fine, only
> desktop units caused the problem. The T238 is electrically isolated and
> uses a 9 V battery for power. Through trial and error we discovered that if
> we disconnected pin 5 from the DB9 connector the unit would display weather
> values. Suspecting a DC loop component we used a 40uf and 4uf capacitor
> respectively to connect pin 5 (Ground) of the computers serial port and the
> T238's serial port. The display still went blank. We decided to close shop
> and try another weather station to isolate the problem. But...
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> Solution: On a whim we decided to use a diode to connect pin 5 of both
> serial ports together. With the cathode of the diode towards the T238, bam!
> Displayed values and data output to the computer. We have no idea why this
> works.
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> Errata: We tried hooking up a 12V supply to the T238 and had the same
> problem. It occurred to me this morning that the 12V supply was from a
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> connecting the device to a grounded power supply, or grounding the T238 to
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>
> Rich - Wn0x
>
>
> > Rich:
> >
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> > something higher level is going wrong. If you have fairly current
> software,
> > it will report some goodies like bus voltage on the status screen. That
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> > Have you tried hooking it up to the TNC, does that work or not?
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> > Any chance of some weird grounding loops or something? Ideally the entire
> > T238 system is grounded at only one place, no ground references are
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> > the weather sensors or power supply. Any grounding should be through the
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> > If any of the timing is getting messed up you would see the LED blink
> > differently. Is it still blinking about once per second?
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> > will
> >
> > -----Original Message-----
> > From: bounce-wxsig-20681@lists.tapr.org
> > [mailto:bounce-wxsig-20681@lists.tapr.org] On Behalf Of Arnold Harding
> > Sent: Monday, January 28, 2002 2:15 PM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] Re: Display Going Blank/Serial Connect
> >
> >
> > Does the display actually go blank or are the data numbers replaced by
> > dashes (---)?
> > YES
> >
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> > WinAPRS. Though, when this happens, it hasn't yet been iitialized to

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> > Using a serial cable.
> >
> >
> > You have the computer cable connected to the Computer connector, J4,
> > right?
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> >
> > sorry about all the questions, but it helps with answers.
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> > I answered because I purchased this unit from Rich, and originally asked
> > him about it.
> >
> > Kevin Brown
> > Kc0czi
> >
> >
> >
> > Arnold Harding
> > kq6di
> >
> >
> > ---
> > You are currently subscribed to wxsig as: wn0x@earthlink.net
> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
>
>
> ---
> You are currently subscribed to wxsig as: w9ddd@tapr.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] RE: Photos of a Portable T238

From: "William Beals" <will@beals5.com>
Date: Wed, 6 Feb 2002 20:39:14 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-61550-2002.02.06-22.05.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

That is one serious heavy-duty portable case. I like it!

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Rich Beckwith
Sent: Tuesday, February 05, 2002 8:08 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Photos of a Portable T238

This T238 was mounted in a Pelican case to make it suitable for portable
operations. I can't count the APRS demonstrations we used this for. Made a
really handy "field ready" weather station as well.

http://home.earthlink.net/~wn0x/t238a.jpg
http://home.earthlink.net/~wn0x/t238b.jpg
http://home.earthlink.net/~wn0x/t238c.jpg
http://home.earthlink.net/~wn0x/t238c.jpg

Rich - Wn0x

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] RE: Photos of a Portable T238

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Thu, 7 Feb 2002 09:21:20 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-61613-2002.02.07-09.52.50--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks Will, I really like this set up. The box is the smallest Pelican case
you can buy. Some may think it's overkill, but you can close this baby up
and toss it into the trunk with your other stuff and not worry about
damaging anything. The panel is made of double sided PC board. Great
stuff! Easy to work with and very strong. Also provides a bit of RF
shielding.

I had considered a panel mount RJ45 connector for this intead of the
standard RJ11 phone jack to make it look better. The nice thing about the
standard RJ11 phone jack is that you can pop the top and attach phone wire
directly to the terminals. Then you can put a standard phone jack on the
the other end of the wire and plug your Wx station and other 1-Wire devices
right in.

For those of you who are interested I still have the template for punching
the button holes and etching the PCB for the switches. The following are
the part#s for the switches and caps. These are great little PC mount
switches with a nice feel. The switches are about 20 cents and the caps are
about 11 cents.

>101-0661 MOUNTAIN MICRO-MINI PUSHBUTTON SWITCH SSPLTD 6X6 SQ .287
>101-0202 MOUNTAIN MICRO-MINI PUSHBUTTON SWITCH 6X6 RND RED CAP
>101-0204 MOUNTAIN MICRO-MINI PUSHBUTTON SWITCH 6X6 RND YEL CAP
>101-0205 MOUNTAIN MICRO-MINI PUSHBUTTON SWITCH 6X6 RND GRN CAP
>101-0206 MOUNTAIN MICRO-MINI PUSHBUTTON SWITCH 6X6 RND BLUE CAP

> Rich:
>
> That is one serious heavy-duty portable case. I like it!
>
> will

>
> This T238 was mounted in a Pelican case to make it suitable for portable
> operations. I can't count the APRS demonstrations we used this for. Made
a
> really handy "field ready" weather station as well.
>
> http://home.earthlink.net/~wn0x/t238a.jpg
> http://home.earthlink.net/~wn0x/t238b.jpg
> http://home.earthlink.net/~wn0x/t238c.jpg
> http://home.earthlink.net/~wn0x/t238d.jpg
>
> Rich - Wn0x
>

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] Re: Photos of a Portable T238

From: "Jack Smith" <jack_r_smith@hotmail.com>
Date: Thu, 7 Feb 2002 09:36:56 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-61617-2002.02.07-10.07.53--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Cool!!!   I like that a lot!

Jack KE4LWT

----- Original Message -----
From: "Rich Beckwith" <wn0x@earthlink.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>

Sent: Tuesday, February 05, 2002 9:08 AM
Subject: [wxsig] Photos of a Portable T238

> This T238 was mounted in a Pelican case to make it suitable for portable
> operations. I can't count the APRS demonstrations we used this for. Made
a
> really handy "field ready" weather station as well.
>
> http://home.earthlink.net/~wn0x/t238a.jpg
> http://home.earthlink.net/~wn0x/t238b.jpg
> http://home.earthlink.net/~wn0x/t238c.jpg
> http://home.earthlink.net/~wn0x/t238c.jpg
>
> Rich - Wn0x
>
>
> ---
> You are currently subscribed to wxsig as: ke4lwt@arrl.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] Switch & Display Template for T238

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Thu, 7 Feb 2002 16:31:22 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-61714-2002.02.07-17.03.08--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have uploaded the punch/drill templates for the T238 switches and display.

Adobe format:

http://home.earthlink.net/~wn0x/t238buttontemplate.pdf

or jpeg

http://home.earthlink.net/~wn0x/t238buttontemplate.jpg

Part #s for switch & caps from Mouser Electronics www.mouser.com -
800-346-6873.

PCB mounted switch:

101-0661 MOUNTAIN MICRO-MINI PUSHBUTTON SWITCH SSPLTD 6X6 SQ .287

Colored Caps for Switch:

101-0202 MOUNTAIN MICRO-MINI PUSHBUTTON SWITCH 6X6 RND RED CAP
101-0204 MOUNTAIN MICRO-MINI PUSHBUTTON SWITCH 6X6 RND YEL CAP
101-0205 MOUNTAIN MICRO-MINI PUSHBUTTON SWITCH 6X6 RND GRN CAP
101-0206 MOUNTAIN MICRO-MINI PUSHBUTTON SWITCH 6X6 RND BLUE CAP

The switches are .20 each, and the caps are .11 each. This board works
great as the original T238 is a bit troublesome to mount in a box. Remote
off of the header on the T238 to give yourself some other mounting options.

It works best to punch then drill. A hole punch works even better and gives
a much cleaner hole.

Rich - wn0x

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] New PSR available on-line

From: "John R. Ackermann" <jra@febo.com>
Date: Sat, 16 Feb 2002 10:10:17 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-63424-2002.02.16-09.51.22--lyris.wxsig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

The Winter, 2002 issue of TAPR's journal, The Packet Status Register, is
now available on-line at http://www.tapr.org/tapr/html/Fpsr.html . Hope
you enjoy it!

73,
John N8UR

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] Re: I button devices

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sun, 17 Feb 2002 17:10:07 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-63788-2002.02.17-16.40.39--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

----- Original Message -----
From: Byron D. Lichtenwalner <w3wkr@ptd.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Sunday, February 17, 2002 11:42 AM

> What's the latest information on availabity of Bar. Pressure and Humidity
I
> buttons?
> Byron, w3wkr
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

13. [wxsig] Re: I button devices

From: joeya <kb2qle@optonline.net>
Date: Sun, 17 Feb 2002 17:45:17 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-63792-2002.02.17-17.17.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I WAS TOLD TWO WEEKS AGO IS THEY ARE NOT SURE WHEN THEY WILL RELEASE THE
BAR BUTTON OR THE HUMIDITY BUTTON

" AND THEY ARE NO LONGER PRODUCING THE RAIN GUAGE "

----- Original Message -----
From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Sunday, February 17, 2002 5:10 PM
Subject: [wxsig] Re: I button devices

>
> ----- Original Message -----
> From: Byron D. Lichtenwalner <w3wkr@ptd.net>
> To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
> Sent: Sunday, February 17, 2002 11:42 AM
>
>
> > What's the latest information on availabity of Bar. Pressure and
Humidity
> I
> > buttons?
> > Byron, w3wkr
> >
>
>
> ---
> You are currently subscribed to wxsig as: kb2qle@optonline.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org

To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] Ice free sensors?

From: Arnold Harding <kq6di@attbi.com>
Date: Sun, 17 Feb 2002 15:38:08 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-63798-2002.02.17-18.10.50--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Has anyone found a good way to reduce ice buildup on the wind sensors? I know a heat lamp mounted a few feet above pointed at the sensors works, but I can't do that here. I also remember that silicone spray on the instrument tends to keep the ice off for a while. Any other suggestions???

(You can see the wind instruments freezing up here at about 1200z on 2/17.
http://www.findu.com/cgi-bin/wxpage.cgi?WB6GUM-3
)

Thanks, Arnold Harding

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] Re: I button devices

From: "David R. Andersen" <k0rx@qth.com>
Date: Sun, 17 Feb 2002 19:35:00 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-63820-2002.02.17-20.06.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Byron:
My project - MicroWeather - uses the i-button anemometer head. I've designed my own baro and humidity sensors (as well as temperature) and it all fits on the same pc board.

You can read about the project at http://www.qth.com/RXcomm

73
Dave K0RX

Byron D. Lichtenwalner wrote:

> ----- Original Message -----
> From: Byron D. Lichtenwalner <w3wkr@ptd.net>
> To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
> Sent: Sunday, February 17, 2002 11:42 AM
>
>
>
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>
>
> ---
> You are currently subscribed to wxsig as: k0rx@arrl.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
>

--
Dave K0RX
http://www.qth.com/RXcomm

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] Future T238 sensors

From: "William Beals" <will@beals5.com>
Date: Sun, 17 Feb 2002 21:29:55 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-63897-2002.02.17-22.56.19--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

The question has come up more than a fair number of times about when (or
more importantly--what) future sensors are in store for the software support
on the T238.

My concern is that it is not practical for me to put in support for a bunch
of different sensors of the same type. All the assembly code needed for
each sensor takes quite a bit of work. I have been selfishly hoping that
either Dallas, AAG, or one of the several amateur sensors would become a
dominant player and then I would throw in the support for that one.

If Dallas is getting out of the sensor business (current ones as well as
promised ones), then that is going to complicate my plan a bit.

I have not given writing code for the T238 and still want to support more
sensors. I am just trying to make sure the sensors I write code for are
going to be around for a while.

will

==========
This message sent using 100% recycled electrons.
(minimum 30% post-consumer)
==========
Will Beals
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

17. [wxsig] Re: Future T238 sensors

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sun, 17 Feb 2002 22:41:06 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-63898-2002.02.17-23.11.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Good idea. There is a lot discussion and testing on the Dallas Weather sig
for BP sensors. I thought AAG was working on something as well. No sense
in going to a lot of work until the dust settles. I still have two
Honeywell BP sensors waiting for just the right design myself!

Rich - Wn0x

> Folks:
>
> The question has come up more than a fair number of times about when (or
> more importantly--what) future sensors are in store for the software
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> on the T238.
>
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>
> will
>

> ==
> This message sent using 100% recycled electrons.
> (minimum 30% post-consumer)
> ==
> Will Beals
> 15014 East Idaho Place
> Aurora, CO 80012
> 303-755-0293
> will@beals5.com
>
>
> ---
> You are currently subscribed to wxsig as: wn0x@earthlink.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

18. [wxsig] Re: Future T238 sensors

From: Doug <doug1911@neb.rr.com>
Date: Mon, 18 Feb 2002 06:58:51 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-63944-2002.02.18-07.31.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>Folks:
>
>The question has come up more than a fair number of times about when (or
>more importantly--what) future sensors are in store for the software support
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>
>will

Will I couldn't agree with you more! There are so many different types of
sensors and the way people want to implement them that there is no way one
person can support all that. A common thing I hear at work is "Well it's
only software!". I have to always remind them that they've never written a
line of code in their lives, so they don't know what is all involved.

Doug

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

19. [wxsig] Re: Ice free sensors?

From: "Michal Smialowski" <mikesmi@uniserve.com>
Date: Mon, 18 Feb 2002 22:21:39 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64174-2002.02.19-00.52.51--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

RE : sensors freezing;
I live in northern British Columbia and have been to quite a few remote
weather stations up at 6000' altitude that are exposed to extreme weather
conditions. Their solution is a 45 gallon drum full of antifreeze a nozzle
that sprays the wind vanes on a timed basis. I imagine that they have tried
everything else and this is the only solution that works.
Mike Smialowski VE7SML

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

20. [wxsig] Re: Ice free sensors?

From: "Jack Smith" <jrs38801@bellsouth.net>
Date: Tue, 19 Feb 2002 03:01:46 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64181-2002.02.19-03.33.21--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hmmm... Make some kind of a funnel type catch arrangement so you can recycle it and that wouldn't be a bad idea. Of course, I live in the southeastern US, so that's not a problem now!

Jack KE4LWT

-----Original Message-----
From: bounce-wxsig-27752@lists.tapr.org
[mailto:bounce-wxsig-27752@lists.tapr.org]On Behalf Of Michal Smialowski
Sent: Tuesday, February 19, 2002 12:22 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Ice free sensors?

RE : sensors freezing;
I live in northern British Columbia and have been to quite a few remote weather stations up at 6000' altitude that are exposed to extreme weather conditions. Their solution is a 45 gallon drum full of antifreeze a nozzle that sprays the wind vanes on a timed basis. I imagine that they have tried everything else and this is the only solution that works.
Mike Smialowski VE7SML

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

21. [wxsig] Re: Ice free sensors?

From: Bill Ellis <rwsw60@email.sps.mot.com>
Date: Tue, 19 Feb 2002 09:28:36 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64211-2002.02.19-10.02.57--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

"Their solution is a 45 gallon drum full of antifreeze a nozzle
that sprays the wind vanes on a timed basis."

Not here in the states! The EPA will put you in jail!

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

22. [wxsig] T-238 died twice

From: Arnold Harding <kq6di@attbi.com>
Date: Wed, 20 Feb 2002 12:14:23 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64471-2002.02.21-02.07.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I had a T-238 die twice. It's on top of a mountain 90 minutes drive each way, so I haven't really looked at it this time.

Last time, none of the buttons worked, and the display was not updating.

This time, I saw some interesting error counts (from findu data).
WB6GUM-3>APRS,WIDE:_02200500c240s003g006t041h68e1w 01000000001397EC
WB6GUM-3>APRS,WIDE:_02200510c283s003g007t041h46e1w
WB6GUM-3>APRS,WIDE:_02200520c252s005g009t042h44e1w
WB6GUM-3>APRS,WIDE:_02200530c261s006g010t042h36e1w
WB6GUM-3>APRS,WIDE:_02200540c251s006g013t042h39e1w
WB6GUM-3>APRS,WIDE:_02200550c249s007g014t042h38e1w
WB6GUM-3>APRS,WIDE:_02200600c251s008g017t042h46e1w 0107121300268FED
WB6GUM-3>APRS,WIDE:_02200610c259s007g015t042h42e1w

WB6GUM-3>APRS,WIDE:_02200620c252s008g015t042h41e1w
WB6GUM-3>APRS,WIDE:_02200630c249s006g012t042h47e1w
WB6GUM-3>APRS,WIDE:_02200640c275s005g011t042h42e1w
WB6GUM-3>APRS,WIDE:_02200650c271s005g009t042h51e1w
WB6GUM-3>APRS,WIDE:_02200700c261s005g010t041h52e1w 0148326D00816DEC

It got quite a few error counts in the last two hours. It's possible that
there is a humidity problem, but otherwise I don't have any clues. It is
inside a small box in a dry area. I solder very well, and it's unlikely a
soldering problem. The solder flux has been removed from the board, so
that shouldn't be a problem.

I am not using the LCD backlight as nobody is there at night. I may put
the resistor back in just to add some heat in the box.

Anybody else see anything like this?

Arnold Harding

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

23. [wxsig] Virus Found in message "wxsig digest January 28 2002"

From: "Ehler, Kyle" <kyle.ehler@lsil.com>
Date: Wed, 20 Feb 2002 13:22:20 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64472-2002.02.21-02.08.17--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Norton AntiVirus found a virus in an attachment you (TAPR WX Special
Interest Group digest) sent to wxsig digest recipients.

To ensure the recipient(s) are able to use the files you sent, perform a
virus scan on your computer, clean any infected files, then resend this
attachment.

Attachment: www.myparty.yahoo.com
Virus name: W32.Myparty@mm
Action taken: Clean failed : Quarantine succeeded :
File status: Infected

24. [wxsig] Adjutant

From: Mike Solomon <wb5hbu@samlink.com>
Date: Thu, 21 Feb 2002 19:25:57 -0500 (EST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64708-2002.02.21-19.00.04--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Minutes
In trying to locate a complete copy of the Minutes of the meetings of this Post I have found the
following Minutes to be missing:
October 1997 February 1999
March 1999 April 1999
June 1999 May 2000
June 2000 October 2000
November 2000 January 2001
March 2001 June 2001
July 2001 January 2002
The Minutes for the month of December are not mentioned due to the fact that our Christmas gathering
always falls on or close to the meeting dates and generally no business meeting takes place in December.
[Attachment: QUIKVIEW.EXE; application/octet-stream; 28,672 bytes]
[Attachment: AML Memo.doc; application/octet-stream; 25,088 bytes]

25. [wxsig] Re: T-238 died twice

From: "Russ Chadwick" <kb0tvj@peakpeak.com>
Date: Fri, 22 Feb 2002 02:29:05 -0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64730-2002.02.21-21.00.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Arnold,

I run a T-238 outside at the environmental temperature. I do leave the back
light on during the cold weather just to generate a bit of heat in the box.
However, I have gone through long cold periods without the back light and
not experienced any problems.

I would more expect that the 1-Wire network is causing the increased error
counts that you are seeing rather than the T-238 itself. Could you describe
your 1-Wire network, type of cable, number of branches and length of each?

Russ Chadwick   KBØTVJ
Boulder, Colorado
www.wxqa.com
----- Original Message -----
From: "Arnold Harding" <kq6di@attbi.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Wednesday, February 20, 2002 8:14 PM
Subject: [wxsig] T-238 died twice

> I had a T-238 die twice. It's on top of a mountain 90 minutes drive each
> way, so I haven't really looked at it this time.
>
> Last time, none of the buttons worked, and the display was not updating.
>
> This time, I saw some interesting error counts (from findu data).
> WB6GUM-3>APRS,WIDE:_02200500c240s003g006t041h68e1w 01000000001397EC
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> WB6GUM-3>APRS,WIDE:_02200520c252s005g009t042h44e1w
> WB6GUM-3>APRS,WIDE:_02200530c261s006g010t042h36e1w
> WB6GUM-3>APRS,WIDE:_02200540c251s006g013t042h39e1w
> WB6GUM-3>APRS,WIDE:_02200550c249s007g014t042h38e1w
> WB6GUM-3>APRS,WIDE:_02200600c251s008g017t042h46e1w 0107121300268FED
> WB6GUM-3>APRS,WIDE:_02200610c259s007g015t042h42e1w
> WB6GUM-3>APRS,WIDE:_02200620c252s008g015t042h41e1w
> WB6GUM-3>APRS,WIDE:_02200630c249s006g012t042h47e1w
> WB6GUM-3>APRS,WIDE:_02200640c275s005g011t042h42e1w
> WB6GUM-3>APRS,WIDE:_02200650c271s005g009t042h51e1w
> WB6GUM-3>APRS,WIDE:_02200700c261s005g010t041h52e1w 0148326D00816DEC
>
> It got quite a few error counts in the last two hours. It's possible that
> there is a humidity problem, but otherwise I don't have any clues. It is
> inside a small box in a dry area. I solder very well, and it's unlikely a
> soldering problem. The solder flux has been removed from the board, so
> that shouldn't be a problem.
>
> I am not using the LCD backlight as nobody is there at night. I may put
> the resistor back in just to add some heat in the box.
>
> Anybody else see anything like this?
>
> Arnold Harding
>
> ---
> You are currently subscribed to wxsig as: kb0tvj@peakpeak.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

26. [wxsig] findu.com backup server

From: Guy.Story@levi.flyingpig.net, KC5GOI <kc5goi@infospeedway.net>
Date: Thu, 21 Feb 2002 21:28:42 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: "UI-View" <ui-view@yahoogroups.com>, APRS SIG <aprssig@lists.tapr.org>,
        WX Sig <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64738-2002.02.21-22.06.53--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Good morning. Last week, the findu.com backup server was discussed
and a few decisions were made regarding its procurement and
administration. A few questions may still need to be answered, however
we believe a plan is in place that will help see the project through.

        Clint Miller, KD5BYY and co-owner of Itel-Tigerbyte
(http://www.tigerbyte.com), has agreed to provide the installation and
maintenance for the server.

        TAPR has offered to be the gateway for your donations. Any
credit card donations can be handled by TAPR, just be sure to indicate
they are for the "findu.com backup server".

        The Denton County Amateur Radio Club has offered to be the

caretaker
organization and will issue a 501c3 letter to any user who can make a tax deductible donation. The Denton County Amateur Radio Club may be found on the web at http://www.lsic.net/dcara/dcara.html. For individuals to make tax donations, someone has to assume ownership of the server.

In case this project does not achieve the required amount to purchase the server, donations of $50 or more will be returned (less credit card processing charges, if any) with smaller amounts remaining in the TAPR Foundation.

Here are some specific points that need to be addressed:

* The server will be in service for the Amateur Radio Community. It's sole use is for the findu.com backup.

* Itel-Tigetbyte will be getting a T1 line and has donated the connectivity that the T1 provides.

TAPR related:

* TAPR will forward the money to the purchasing organization.

* Tax deductibility depends on the status of the purchaser, not TAPR.

* TAPR won't own, administer or maintain the system and will have nothing to do with the server beyond turning over the donations to the purchaser.

* Any excess donations will be turned over to the purchasing organization with the understanding that these monies will used for a maintenance fund and not for monthly electric or bandwidth bills.
--
Guy Story, KC5GOI
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

27. [wxsig] Re: T-238 died twice

From: "William Beals" <will@beals5.com>
Date: Thu, 21 Feb 2002 22:08:27 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64746-2002.02.21-23.34.45--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Arnold:

Dissecting the status packets suggests something else going on with the 1-wire bus. The second-to last byte is the 1-wire bus voltage. It is a binary value scaled such that 0xff is 5.00 volts. Hence you can see on the last two status messages, the bus voltage values of 8F and 6D translate to voltages of 2.8v and 2.1V respectively. Your 1-wire bus voltage appears way low for some reason, something is likely dragging it down.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Russ Chadwick
Sent: Thursday, February 21, 2002 7:29 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: T-238 died twice

Arnold,

I run a T-238 outside at the environmental temperature. I do leave the back light on during the cold weather just to generate a bit of heat in the box. However, I have gone through long cold periods without the back light and not experienced any problems.

I would more expect that the 1-Wire network is causing the increased error counts that you are seeing rather than the T-238 itself. Could you describe your 1-Wire network, type of cable, number of branches and length of each?

Russ Chadwick   KBØTVJ
Boulder, Colorado
www.wxqa.com
----- Original Message -----
From: "Arnold Harding" <kq6di@attbi.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Wednesday, February 20, 2002 8:14 PM
Subject: [wxsig] T-238 died twice

> I had a T-238 die twice. It's on top of a mountain 90 minutes drive each
> way, so I haven't really looked at it this time.
>
> Last time, none of the buttons worked, and the display was not updating.
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> WB6GUM-3>APRS,WIDE:_02200630c249s006g012t042h47e1w
> WB6GUM-3>APRS,WIDE:_02200640c275s005g011t042h42e1w
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> inside a small box in a dry area. I solder very well, and it's unlikely a
> soldering problem. The solder flux has been removed from the board, so
> that shouldn't be a problem.
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> I am not using the LCD backlight as nobody is there at night. I may put
> the resistor back in just to add some heat in the box.
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> Anybody else see anything like this?
>
> Arnold Harding
>
> ---
> You are currently subscribed to wxsig as: kb0tvj@peakpeak.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

28. [wxsig] Re: T-238 died twice

From: Arnold Harding <kq6di@attbi.com>
Date: Thu, 21 Feb 2002 22:03:32 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64768-2002.02.22-00.36.27--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Isn't it possible to short the 1-wire buss without causing the processor to
lock up?
Arnold

William Beals wrote:
>
> Arnold:
>
> Dissecting the status packets suggests something else going on with the
> 1-wire bus. The second-to last byte is the 1-wire bus voltage. It is a
> binary value scaled such that 0xff is 5.00 volts. Hence you can see on the
> last two status messages, the bus voltage values of 8F and 6D translate to
> voltages of 2.8v and 2.1V respectively. Your 1-wire bus voltage appears way
> low for some reason, something is likely dragging it down.

>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Russ Chadwick
> Sent: Thursday, February 21, 2002 7:29 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: T-238 died twice
>
> Arnold,
>
> I run a T-238 outside at the environmental temperature. I do leave the back
> light on during the cold weather just to generate a bit of heat in the box.
> However, I have gone through long cold periods without the back light and
> not experienced any problems.
>
> I would more expect that the 1-Wire network is causing the increased error
> counts that you are seeing rather than the T-238 itself. Could you describe
> your 1-Wire network, type of cable, number of branches and length of each?
>
> Russ Chadwick   KBØTVJ
> Boulder, Colorado
> www.wxqa.com
> ----- Original Message -----
> From: "Arnold Harding" <kq6di@attbi.com>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Wednesday, February 20, 2002 8:14 PM
> Subject: [wxsig] T-238 died twice
>
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> > WB6GUM-3>APRS,WIDE:_02200530c261s006g010t042h36e1w
> > WB6GUM-3>APRS,WIDE:_02200540c251s006g013t042h39e1w
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> > WB6GUM-3>APRS,WIDE:_02200620c252s008g015t042h41e1w
> > WB6GUM-3>APRS,WIDE:_02200630c249s006g012t042h47e1w
> > WB6GUM-3>APRS,WIDE:_02200640c275s005g011t042h42e1w
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> > Arnold Harding
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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

29. [wxsig] Re: T-238 died twice

From: "Russ Chadwick" <kb0tvj@peakpeak.com>
Date: Fri, 22 Feb 2002 13:15:38 -0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64804-2002.02.22-07.47.19--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Arnold,

Yes, you can short the 1-wire buss and it will not cause the processor to halt. You get a message on the display that the buss is shorted.

It appears that something in your 1-wire network is pulling down the buss voltage. You might plot your buss voltage over time and see if the low values occur at certain times of the day or are correlated with conditions like temperature, wind or humidity. I have all of this information saved with the last 15 days on my web page. I don't have the complete archive completely up to date yet, but can send you any of the any of the days that you want.

Russ Chadwick KBØTVJ
Boulder, Colorado
www.wxqa.com

----- Original Message -----
From: "Arnold Harding" <kq6di@attbi.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Friday, February 22, 2002 6:03 AM
Subject: [wxsig] Re: T-238 died twice

> Isn't it possible to short the 1-wire buss without causing the processor to
> lock up?
> Arnold
>
> William Beals wrote:
> >
> > Arnold:
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> >
> > will
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> > From: bounce-wxsig-21132@lists.tapr.org
> > [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Russ Chadwick
> > Sent: Thursday, February 21, 2002 7:29 PM
> > To: TAPR WX Special Interest Group
> > Subject: [wxsig] Re: T-238 died twice
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> > Arnold,
> >
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> > I would more expect that the 1-Wire network is causing the increased error
> > counts that you are seeing rather than the T-238 itself. Could you describe
> > your 1-Wire network, type of cable, number of branches and length of each?
> >
> > Russ Chadwick KBØTVJ
> > Boulder, Colorado
> > www.wxqa.com

> > ----- Original Message -----
> > From: "Arnold Harding" <kq6di@attbi.com>
> > To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> > Sent: Wednesday, February 20, 2002 8:14 PM
> > Subject: [wxsig] T-238 died twice
> >
> > > I had a T-238 die twice. It's on top of a mountain 90 minutes drive
each
> > > way, so I haven't really looked at it this time.
> > >
> > > Last time, none of the buttons worked, and the display was not
updating.
> > >
> > > This time, I saw some interesting error counts (from findu data).
> > > WB6GUM-3>APRS,WIDE:_02200500c240s003g006t041h68e1w 01000000001397EC
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> > > WB6GUM-3>APRS,WIDE:_02200530c261s006g010t042h36e1w
> > > WB6GUM-3>APRS,WIDE:_02200540c251s006g013t042h39e1w
> > > WB6GUM-3>APRS,WIDE:_02200550c249s007g014t042h38e1w
> > > WB6GUM-3>APRS,WIDE:_02200600c251s008g017t042h46e1w 0107121300268FED
> > > WB6GUM-3>APRS,WIDE:_02200610c259s007g015t042h42e1w
> > > WB6GUM-3>APRS,WIDE:_02200620c252s008g015t042h41e1w
> > > WB6GUM-3>APRS,WIDE:_02200630c249s006g012t042h47e1w
> > > WB6GUM-3>APRS,WIDE:_02200640c275s005g011t042h42e1w
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> > >
> > > It got quite a few error counts in the last two hours. It's possible
that
> > > there is a humidity problem, but otherwise I don't have any clues. It
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> > > inside a small box in a dry area. I solder very well, and it's
unlikely a
> > > soldering problem. The solder flux has been removed from the board,
so
> > > that shouldn't be a problem.
> > >
> > > I am not using the LCD backlight as nobody is there at night. I may
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> > > the resistor back in just to add some heat in the box.
> > >
> > > Anybody else see anything like this?
> > >
> > > Arnold Harding
> > >
> > > ---
> > > You are currently subscribed to wxsig as: kb0tvj@peakpeak.com
> > > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

30. [wxsig] Re: T-238 died twice

From: Bill Ellis <rwsw60@email.sps.mot.com>
Date: Fri, 22 Feb 2002 09:11:28 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64822-2002.02.22-09.45.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

If you have a rain gage remove it and check the system.
If the short is gone the rain gage board is bad.
Dallas as some with capacitors that shorted and drained the battery.
When mine failed it looked like a bus short. Mine failed the same way it
seems your's has.

Let me know what you find.
N5ZTW

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

31. [wxsig] Re: T-238 died twice

From: Arnold Harding <kq6di@attbi.com>
Date: Fri, 22 Feb 2002 07:31:52 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64827-2002.02.22-10.04.42--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ,
The 1-wire network is Cat-5 wire. From the T238 to the Dallas weather head is 30 to 40 feet (best guess), then another 10 feet to the humidity sensor. The 'second' jack in the Dallas weather head is the branch point. The humidity sensor is a Dallas evaluation humidity button in the can (not the pc board) 'protected' from the weather in a Vaisala pagoda. A Dallas TOD clock is in the prototype area on the 1-wire bus. This connects to the 1-wire bus at a processor pin; not the jack. (I can solder good, honest.)

The T238 is inside a fire lookout. The fire lookout (and surroundings) has several radio transmitters on everything from 50 MHz through 2 GHz. The radio equipment doesn't seem to bother the 1-wire network after I placed a Radio Shack Snap-on ferrite with 3 turns on the Cat-5 wire. When this decided to finally die, it was between 10 pm and midnight, and I suspect there was less RF running around at this time than other times.

At the time this died, the data shows that the humidity was near 50%. This is not true, but just a artifact of the T238 dying. Another weather station about 1/2 mile away was still showing 100% for at least another 12 hours after. The weather at the T238 had been 100% for 3 days when this died. The fire lookout is not heated, and the outside temperature was 10° higher than at the low temperature point. This is why I'm wondering if condensation possibly occurred on the T238, in the T238 box, inside the fire lookout. I don't think the fire lookout has enough equipment to add much heat; I'm sure some, but not a lot. This is why I suspect a humidity problem, but I'm just guessing...

Any more hints?

Arnold Harding

Russ Chadwick wrote:
>
> Arnold,
>
> I run a T-238 outside at the environmental temperature. I do leave the back
> light on during the cold weather just to generate a bit of heat in the box.
> However, I have gone through long cold periods without the back light and
> not experienced any problems.
>
> I would more expect that the 1-Wire network is causing the increased error
> counts that you are seeing rather than the T-238 itself. Could you describe
> your 1-Wire network, type of cable, number of branches and length of each?
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> Russ Chadwick   KBØTVJ
> Boulder, Colorado
> www.wxqa.com
> ----- Original Message -----
> From: "Arnold Harding" <kq6di@attbi.com>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Wednesday, February 20, 2002 8:14 PM
> Subject: [wxsig] T-238 died twice
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> > I had a T-238 die twice. It's on top of a mountain 90 minutes drive each
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> > WB6GUM-3>APRS,WIDE:_02200540c251s006g013t042h39e1w
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> > WB6GUM-3>APRS,WIDE:_02200610c259s007g015t042h42e1w
> > WB6GUM-3>APRS,WIDE:_02200620c252s008g015t042h41e1w
> > WB6GUM-3>APRS,WIDE:_02200630c249s006g012t042h47e1w
> > WB6GUM-3>APRS,WIDE:_02200640c275s005g011t042h42e1w
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> > inside a small box in a dry area. I solder very well, and it's unlikely a
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> > I am not using the LCD backlight as nobody is there at night. I may put
> > the resistor back in just to add some heat in the box.
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> > Anybody else see anything like this?
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> > Arnold Harding
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> > ---
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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

32. [wxsig] Re: T-238 died twice

From: Arnold Harding <kq6di@attbi.com>
Date: Fri, 22 Feb 2002 07:32:45 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64828-2002.02.22-10.05.36--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks, but sorry no rain gauge.

Arnold Harding

Bill Ellis wrote:
>
> If you have a rain gage remove it and check the system.
> If the short is gone the rain gage board is bad.
> Dallas as some with capacitors that shorted and drained the battery.
> When mine failed it looked like a bus short. Mine failed the same way it
> seems your's has.
> Let me know what you find.
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33. [wxsig] Re: T-238 died twice

From: "William Beals" <will@beals5.com>
Date: Fri, 22 Feb 2002 20:22:59 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64925-2002.02.22-21.49.18--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Arnold:

My feedback was mainly for your most recent issue, not the lockup.

I must admit that doing opens and shorts testing is not a test I perform
regularly. I do an opens/shorts test every time the unit is powered up, but
do not do much testing for errors of that magnitude assuming things started
off working OK. In general I am quite confident that I handle opens

gracefully as that is a standard way for me to test error logging.
Shorts-testing is not something I do though. Having said all that, I do
feel pretty confident of my basic I/O routines and in all my messing around
(during which I can and do mess up the bus a lot), I have never seem the
code lock up.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
Sent: Thursday, February 21, 2002 11:04 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: T-238 died twice

Isn't it possible to short the 1-wire buss without causing the processor to
lock up?
Arnold

William Beals wrote:
>
> Arnold:
>
> Dissecting the status packets suggests something else going on with the
> 1-wire bus. The second-to last byte is the 1-wire bus voltage. It is a
> binary value scaled such that 0xff is 5.00 volts. Hence you can see on
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> last two status messages, the bus voltage values of 8F and 6D translate to
> voltages of 2.8v and 2.1V respectively. Your 1-wire bus voltage appears
way
> low for some reason, something is likely dragging it down.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Russ Chadwick
> Sent: Thursday, February 21, 2002 7:29 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: T-238 died twice
>
> Arnold,
>
> I run a T-238 outside at the environmental temperature. I do leave the
back
> light on during the cold weather just to generate a bit of heat in the
box.
> However, I have gone through long cold periods without the back light and
> not experienced any problems.
>
> I would more expect that the 1-Wire network is causing the increased error
> counts that you are seeing rather than the T-238 itself. Could you
describe
> your 1-Wire network, type of cable, number of branches and length of each?
>
> Russ Chadwick   KBØTVJ
> Boulder, Colorado
> www.wxqa.com
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> Sent: Wednesday, February 20, 2002 8:14 PM
> Subject: [wxsig] T-238 died twice
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34. [wxsig] Re: T-238 died twice

From: Arnold Harding <kq6di@attbi.com>
Date: Fri, 22 Feb 2002 20:29:44 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64933-2002.02.22-23.02.36--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I really suspect my problem is occasional condensation on the board due to
days and days of high humidity. I don't have any good way of proving it.
Everyone has convinced me that this isn't happening elsewhere. Maybe I'll
put another T238 up there with the humidity sensor in the building. Yet
another project. (We all need more weather stations.)

Thanks everyone for the feedback.

Arnold

William Beals wrote:
>
> Arnold:
>
> My feedback was mainly for your most recent issue, not the lockup.
>
> I must admit that doing opens and shorts testing is not a test I perform
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> feel pretty confident of my basic I/O routines and in all my messing around
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>
> will

>
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> Sent: Thursday, February 21, 2002 11:04 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: T-238 died twice
>
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> > > WB6GUM-3>APRS,WIDE:_02200630c249s006g012t042h47e1w
> > > WB6GUM-3>APRS,WIDE:_02200640c275s005g011t042h42e1w
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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

35. [wxsig] Re: T-238 died twice

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Date: Fri, 22 Feb 2002 22:40:32 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64934-2002.02.22-23.09.19--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

If this is really what you suspect, repeat after me: DowCorning 3140 is
my friend.

Now, go forth and purchase some, and paint your board with it. Let it
dry. You've just fixed the condensation issue.

Lest you worry, DC3140 and DC3145 are non-corrosive-curing polymers that
work real well for conformal coating and prevention of condensation on
circuit boards. NASA uses them for spaceflight surfaces to preclude
board shorts by random floating bits, liquids, etc.

Good luck,
Gerry
--
Arnold Harding wrote:
>
> I really suspect my problem is occasional condensation on the board due to
> days and days of high humidity. I don't have any good way of proving it.
> Everyone has convinced me that this isn't happening elsewhere. Maybe I'll
> put another T238 up there with the humidity sensor in the building. Yet
> another project. (We all need more weather stations.)
>
> Thanks everyone for the feedback.

--
Gerry Creager -- gerry@cs.tamu.edu
Network Engineering
Academy for Advanced Telecommunications and Learning Technologies
Texas A&M University   979.458.4020 (Phone) -- 979.847.8578 (Fax)

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

36. [wxsig] Re: T-238 died twice

From: Arnold Harding <kq6di@attbi.com>
Date: Fri, 22 Feb 2002 20:40:39 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-64937-2002.02.22-23.13.36--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have conformal coating at work I could apply also. So many choices...

Thanks, Arnold

Gerry Creager N5JXS wrote:
>
> If this is really what you suspect, repeat after me: DowCorning 3140 is
> my friend.
>
> Now, go forth and purchase some, and paint your board with it. Let it
> dry. You've just fixed the condensation issue.
>
> Lest you worry, DC3140 and DC3145 are non-corrosive-curing polymers that
> work real well for conformal coating and prevention of condensation on
> circuit boards. NASA uses them for spaceflight surfaces to preclude
> board shorts by random floating bits, liquids, etc.
>
> Good luck,
> Gerry
> --
> Arnold Harding wrote:
> >
> > I really suspect my problem is occasional condensation on the board due to
> > days and days of high humidity. I don't have any good way of proving it.
> > Everyone has convinced me that this isn't happening elsewhere. Maybe I'll
> > put another T238 up there with the humidity sensor in the building. Yet
> > another project. (We all need more weather stations.)
> >
> > Thanks everyone for the feedback.
>
> --
> Gerry Creager -- gerry@cs.tamu.edu
> Network Engineering
> Academy for Advanced Telecommunications and Learning Technologies
> Texas A&M University   979.458.4020 (Phone) -- 979.847.8578 (Fax)
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
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---
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37. [wxsig] findu.com backup server donation clarification

From: Guy.Story@levi.flyingpig.net, KC5GOI <kc5goi@kc5goi.net>
Date: Wed, 27 Feb 2002 08:42:48 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: APRS SIG <aprssig@lists.tapr.org>,
        Xastir <xastir@krypton.hscs.virginia.edu>, "APRS+" <aprsplus@k8sn.org>
Message-ID: <LYR15067-65662-2002.02.27-09.21.19--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Good morning everyone. I need to issue a clarification for those wanting to
make a tax donatable donation to the findu.com backup server. If you are
wanting to make a donation and receive a letter letting you write it off you
your taxes, you will need to make the check to the DCARC and in the notes
column it is critical that you indicate it is for the findu.com backup
server. If you do not want the letter, you can send the donations to either
TAPR of the DCARC. Make sure that you indicate that it is for the findu.com
backup server. Donations from clubs as well as individuals are welcome. I
am not a member on many APRS and weather related mailing lists. Please pass
this on to those lists.

Thank you for your help and donations.

--
Guy Story, KC5GOI
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

38. [wxsig] Re: findu.com backup server donation clarification

From: Arnold Harding <kq6di@attbi.com>
Date: Wed, 27 Feb 2002 12:22:29 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: APRS SIG <aprssig@lists.tapr.org>,
Xastir <xastir@krypton.hscs.virginia.edu>, APRS+ <aprsplus@k8sn.org>
Message-ID: <LYR15067-65704-2002.02.27-14.55.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does anyone know the mailing address for DCARC?

Thanks, Arnold
KQ6DI

Guy.Story@levi.flyingpig.net, KC5GOI wrote:
>
> Good morning everyone. I need to issue a clarification for those wanting to
> make a tax donatable donation to the findu.com backup server. If you are
> wanting to make a donation and receive a letter letting you write it off you
> your taxes, you will need to make the check to the DCARC and in the notes
> column it is critical that you indicate it is for the findu.com backup
> server. If you do not want the letter, you can send the donations to either
> TAPR of the DCARC. Make sure that you indicate that it is for the findu.com
> backup server. Donations from clubs as well as individuals are welcome. I
> am not a member on many APRS and weather related mailing lists. Please pass
> this on to those lists.
>
> Thank you for your help and donations.
>
> --
> Guy Story, KC5GOI
> Itel-Tigerbyte LLC
> gstory@tigerbyte.com
> 940.891.4575
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
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March 2002

Original source file: wxsig.0203
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0203

1. [wxsig] findu.com backup server project

From: Guy.Story@levi.flyingpig.net, KC5GOI <kc5goi@kc5goi.net>
Date: Sun, 3 Mar 2002 23:41:19 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-66429-2002.03.04-00.20.19--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Good morning everyone. This is a reminder that contributions are being being solicited for the backup findu.com server. Below are the agreements by clubs and volunteers. This project has the backing of Steve Dimse, K4HG and he has made the first donation. Steve will not own this server, it will not be at his residence or be under his direct care. Steve has volunteered to help with the initial installation and initial technical support.

Clint Miller, KD5BYY and co-owner of Itel-Tigerbyte (http://www.tigerbyte.com), has agreed to provide the installation and maintenance for the server. After Steve helps with the initial setup, the server will be his responsability.

TAPR has offered to be a gateway for your donations. Any credit card donations can be handled by TAPR, just be sure to indicate they are for the "findu.com backup server". Donations maybe be mailed to

TAPR
P. O. Box 852754
Richardson, TX 75085-2754

or

Tucson Amateur Packet Radio
8987-309 E. Tanque Verde Rd., #337
Tucson, AZ 85749-9399

The Texas address is the quickest since it is the physical location of the TAPR office.

The Denton County Amateur Radio Club has offered to be the caretaker
organization and will issue a 501c3 letter to any user who can make a tax deductible donation. The Denton County Amateur Radio Club may be found on the web at http://www.lsic.net/dcara/dcara.html. For individuals to make tax donations, someone has to assume ownership of the server. Donations may also be sent to the DCARC at

DENTON COUNTY AMATEUR RADIO ASSOCIATION
PO BOX 50433
DENTON, TX 76206

In case this project does not achieve the required amount to purchase the server, donations of $50 or more will be returned (less credit card processing charges, if any) with smaller amounts remaining in the TAPR Foundation.

Here are some specific points that need to be addressed:

* The server will be in service for the Amateur Radio Community. It's sole use is for the findu.com backup.

* Itel-Tigetbyte will be getting a T1 line and has donated the connectivity that the T1 provides.

TAPR related:

* TAPR will forward the money to the purchasing organization.

* Tax deductibility depends on the status of the purchaser, not TAPR.

* TAPR will not own, administer or maintain the system and will have nothing to do with the server beyond turning over the donations to the

purchaser.

* Any excess donations will be turned over to the purchasing
organization with the understanding that these monies will used for a
maintenance fund and not for monthly electric or bandwidth bills.

Checks and money orders are the preferred method of payment for those
wishing to make a tax deductable donation. Checks or money orders need
to be addressed to either TAPR or DCARC with a comment in the notes
column Findu.com backup server.

If you are wanting to make a donation and receive a letter letting you write
it off you
your taxes, you will need to make the check to the DCARC and in the notes
column it is critical that you indicate it is for the findu.com backup
server. Make sure that you indicate that it is for the findu.com
backup server. Donations from clubs as well as individuals are welcome. I
am not a member on many APRS and weather related mailing lists. Please pass
this on to those lists.

Thank you for your help and donations.
--
Guy Story, KC5GOI
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] findu.com backup server site

From: Guy.Story@levi.flyingpig.net, KC5GOI <kc5goi@kc5goi.net>
Date: Mon, 11 Mar 2002 13:18:59 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-67906-2002.03.11-13.58.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello everyone, I posted two web pages last night that may still need to
tweaking (spelling, gramar and a fet formating issues). The main page gives
you an overview of the project and is a perfect place to point people to who
have questions. The other is a status page of donations. The status page
will also have a list of people thanking them for their support. It you do
not want your name on the list, indicate that in your donation.

The main page is at:

http://www.kc5goi.net/findu

The status page is at:

http://www.kc5goi.net/findu/status.html

73

--
Guy Story, KC5GOI
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Wind direction errors

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Thu, 14 Mar 2002 21:44:41 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-68539-2002.03.14-21.19.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Gand
I have an AAG WX station that ran well on AAG Ver.3 software.
Recently I hooked it up to my T238. The 238 reads temp. and wind speed without error.

However, about 80% of the time the direction reading generates an error.

While testing the sensor with TMEX from Dall. Semi., reads perfectly.

Bus voltage is 4.85 volts.

Any ideas?
Byron

4. [wxsig] RE: Wind direction errors

From: "William Beals" <will@beals5.com>
Date: Thu, 14 Mar 2002 21:26:40 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-68551-2002.03.14-22.58.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Byron:

The bus voltage is plenty.

What concerns me is that you get so many errors, but not 100% errors. When you ran the wind direction calibration routine, did it go smoothly? For the AAG rev 3 stations, it is a lot less painful than on the earlier stations.

If it truly is 80% errors, that might imply that there is something weird going on with the A/D conversion process inside the weather station and maybe the results are not coming back within the ranges needed.

Can you run the ibutton viewer software that will provide back the raw results of the A/D conversion process. If you can tell me what raw values are being read back by the DS2450 when you hold the wind vane in several directions, that will give a good idea of what data is going back to the T238 and will help isolate the problem.

will
-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Byron D.
Lichtenwalner
Sent: Thursday, March 14, 2002 7:45 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Wind direction errors

Hi Gand
I have an AAG WX station that ran well on AAG Ver.3 software.
Recently I hooked it up to my T238. The 238 reads temp. and wind speed without error.

However, about 80% of the time the direction reading generates an error.

While testing the sensor with TMEX from Dall. Semi., reads perfectly.

Bus voltage is 4.85 volts.

Any ideas?
Byron

5. [wxsig] RE: Wind direction errors

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Fri, 15 Mar 2002 08:55:57 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-68609-2002.03.15-08.32.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

----- Original Message -----
From: William Beals
To: TAPR WX Special Interest Group
Sent: Thursday, March 14, 2002 11:26 PM
Subject: [wxsig] RE: Wind direction errors

Byron:

The bus voltage is plenty.

What concerns me is that you get so many errors, but not 100% errors. When you ran the wind direction calibration routine, did it go smoothly? For the AAG rev 3 stations, it is a lot less painful than on the earlier stations.

If it truly is 80% errors, that might imply that there is something weird going on with the A/D conversion process inside the weather station and maybe the results are not coming back within the

ranges needed.

Can you run the ibutton viewer software that will provide back the raw results of the A/D conversion process. If you can tell me what raw values are being read back by the DS2450 when you hold the wind vane in several directions, that will give a good idea of what data is going back to the T238 and will help isolate the problem.

will
-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Byron D. Lichtenwalner
Sent: Thursday, March 14, 2002 7:45 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Wind direction errors

Hi Gand
I have an AAG WX station that ran well on AAG Ver.3 software.
Recently I hooked it up to my T238. The 238 reads temp. and wind speed without error.

However, about 80% of the time the direction reading generates an error.

While testing the sensor with TMEX from Dall. Semi., reads perfectly.

Bus voltage is 4.85 volts.

Any ideas?
Byron

6. [wxsig] RE: Wind direction errors

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Fri, 15 Mar 2002 09:02:36 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-68611-2002.03.15-08.36.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Good morning Will.
Yes, I have looked at the A/D outputs with the iButton viewer. Values were 0.08 for the switches closed, something above 5 for the open ones.

Last night after I wrote the note, I put a RTC on the bus. Seems error rate dropped. Any chance I might have too high a voltage on the bus?

What else generates a wind direction error. Thought it was CRC failure, or not responding at all to a 1 wire interogation.
Byron
PS Have all the parts to build the Barometer this week end.

Still havn't gotten binary arith. right for InHg=27.357(Bavad*.427) The equation works, but I am missing something in the binary conversion of constants, or not using your mult816 correctly.

7. [wxsig] RE: Wind direction errors

From: "William Beals" <will@beals5.com>
Date: Fri, 15 Mar 2002 21:51:20 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-68839-2002.03.15-23.27.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Byron:

The AAG Rev 3 sensor should actually report three voltages. Around ground, around 5V, and around 2.5V. Do you ever see any mid-voltages?

For the mid voltages I do have to make a few decisions on exactly what "mid" is, but made sure I gave myself plenty of margin. If for some reason I have chosen different trigger points than the PC software, then I could see the T128 and the PC software giving different results. Besides CRC errors, if I do not see a recognizable pattern on the A/D inputs I will also generate an error.

Good luck on the binary math, it is nasty. If you'd like some help, let me know.

will
-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Byron D. Lichtenwalner
Sent: Friday, March 15, 2002 7:03 AM[William Beals]

To: TAPR WX Special Interest Group
Subject: [wxsig] RE: Wind direction errors

Good morning Will.
Yes, I have looked at the A/D outputs with the iButton viewer. Values were 0.08 for the switches closed, something above 5 for the open ones.

Last night after I wrote the note, I put a RTC on the bus. Seems error rate dropped. Any chance I might have too high a voltage on the bus?

What else generates a wind direction error. Thought it was CRC failure, or not responding at all to a 1 wire interogation.
Byron
PS Have all the parts to build the Barometer this week end.

Still havn't gotten binary arith. right for InHg=27.357(Bavad*.427) The equation works, but I am missing something in the binary conversion of constants, or not using your mult816 correctly.

8. [wxsig] RE: Wind direction errors

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sat, 16 Mar 2002 08:39:46 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-68917-2002.03.16-08.13.55--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will
When I had TMEX on the network, I only got .5 and 5 volt readings. Will look again to see what the "mid-range" readings might be.

I sure would appreciate some help on the binary math for the equation in my last note.

Byron

9. [wxsig] RE: Wind direction errors

From: "Clay Bartholow W0LED" <clay.bartholow@neicoltech.org>
Date: Sat, 16 Mar 2002 09:26:15 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-68930-2002.03.16-09.59.21--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Byron,

I'm not sure if I missed something re the BP sensor. Are you constructing the David Bray BP circuit?

Clay
----- Original Message -----
From: Byron D. Lichtenwalner
To: TAPR WX Special Interest Group
Sent: Saturday, March 16, 2002 7:39 AM
Subject: [wxsig] RE: Wind direction errors

Will
When I had TMEX on the network, I only got .5 and 5 volt readings. Will look again to see what the "mid-range" readings might be.

I sure would appreciate some help on the binary math for the equation in my last note.

Byron

10. [wxsig] RE: Wind direction errors

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sat, 16 Mar 2002 17:16:07 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69024-2002.03.16-16.49.45--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yes, Clay
I am building the Bray Baro. Also have been getting Will's advice on adding a module to his assembly code to add to the T238.

I am obviously not well schooled in binary arith., so was looking for Will's help.

Do you have one of the Bray devices? results?

Byron

11. [wxsig] RE: Wind direction errors

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sat, 16 Mar 2002 21:02:44 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69076-2002.03.16-20.59.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will
Here are the results of my observations on the Wind direction output.
There are "Four" levels of readings I get. As reported there are two, 4.56 and 0.08 volts. In addition, there is a mid-level output at 2.32 volts. then I saw a wierd one for only short glimpses when channel c and d both showed a 3.12 volt output. Should 4 level of signals be possible?

Byron

12. [wxsig] RE: Wind direction errors

From: "William Beals" <will@beals5.com>
Date: Sun, 17 Mar 2002 07:59:09 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69191-2002.03.17-09.51.14--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Byron:

High (4.56), mid (2.32) and low (0.08) are the normal readings. 3.12 volts is a weird one and should not be there. The way the AAG sensor works is that there is a 100K pullup on eachh of the four inputs, then the eight reed switches either pull a line to ground directly or through another 100K resistor, hence the three voltages. 3.12 is suspiciously close to 2/3 of 4.56 volts, but I can't think of an obvious scenario of bad resistors switches that would result in that reading. If you get it on two inputs simultaneously, there might be some arrangement where two pullup resistors are tied to one pulldown, but that would be really strange.

My suggestion is to slowly and carefully run the wind vane through all 16 directions and log the voltages on all four inputs. Here is the table from the source code on what I expect. 0 degrees is relative, so you will have to sync yourself up to the table by inspection. (you need a monospaced font for the table to make sense!)

If there is something weird going on with a set of voltages, I can see how the T238 and the PC software will give differing results. I err on the paranoid side if results look strange, and since these are fairly arbitrary decisions on what is low, middle, and high, I likely have different thresholds than the PC software.

```
;       DIRECTION  SWITCHES CLOSED A/D A/D A/D A/D
;                  Closed          A   B   C   D
;       ========== =============== === === === ===
;       1          S1              .   .   M   .      . = High Voltage
;       2          S1 S2           .   M   M   .      M = Middle Voltage
;       3          S2              .   M   .   .      L = Low Voltage
;       4          S2 S3           M   M   .   .
;       5          S3              M   .   .   .      A/D value meaning
;       6          S3 S4           M   .   .   L      =================
;       7          S4              .   .   .   L      0 = Low
;       8          S4 S5           .   .   L   L      1 = Low
;       9          S5              .   .   L   .      2 = Mid
;       10         S5 S6           .   L   L   .      3 = Mid
;       11         S6              .   L   .   .      4 = Mid
;       12         S6 S7           L   L   .   .      5 = Mid
;       13         S7              L   .   .   .      6 = High
;       14         S7 S8           L   .   .   M      7 = High
;       15         S8              .   .   .   M
;       16         S8 S1           .   .   M   M
;
```

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Byron D.
Lichtenwalner
Sent: Saturday, March 16, 2002 7:03 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: Wind direction errors

Will

Here are the results of my observations on the Wind direction output.
There are "Four" levels of readings I get. As reported there are two, 4.56
and 0.08 volts. In addition, there is a mid-level output at 2.32 volts.
then I saw a wierd one for only short glimpses when channel c and d both
showed a 3.12 volt output. Should 4 level of signals be possible?

Byron

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

13. [wxsig] RE: Wind direction errors

From: "Clay Bartholow W0LED" <bc010001@mn.state.net>
Date: Sun, 17 Mar 2002 17:15:27 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69269-2002.03.17-17.48.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Byron,

I have the parts, I'm just looking for some time to wire it together. I'm just going to assemble it on a prototyping board sorta like David Bray shows on his web site (like the kind you can get at Radio Shack). I've got enough parts to build two so I'm going to build one for 5 volts and another for 12 volts (to the op amp) to try to get a little better resolution.

Clay
  ----- Original Message -----
  From: Byron D. Lichtenwalner
  To: TAPR WX Special Interest Group
  Sent: Saturday, March 16, 2002 4:16 PM
  Subject: [wxsig] RE: Wind direction errors

    Yes, Clay
    I am building the Bray Baro. Also have been getting Will's advice on adding a module to his assembly code to add to the T238.

    I am obviously not well schooled in binary arith., so was looking for Will's help.

    Do you have one of the Bray devices? results?
    Byron

14. [wxsig] RE: Wind direction errors

From: "Ed L Locklear, KF4CHG" <kf4chg@earthlink.net>
Date: Sun, 17 Mar 2002 18:39:52 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69273-2002.03.17-18.12.22--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay,

I would recommend buying the V2 PCB from Far Circuits. The board is
only $4.00 + S&H, which I just received this past week. Nice looking
PCB and will be a lot easier than hard wiring. Here is the URL:

http://www.farcircuits.net/misc1.htm

Ed KF4CHG

Hi Byron, I have the parts, I'm just looking for some time to wire it
together. I'm just going to assemble it on a prototyping board sorta
like David Bray shows on his web site (like the kind you can get at
Radio Shack). I've got enough parts to build two so I'm going to build
one for 5 volts and another for 12 volts (to the op amp) to try to get a
little better resolution. Clay

     ----- Original Message -----
     From: Byron D. Lichtenwalner
     To: TAPR WX Special Interest Group
     Sent: Saturday, March 16, 2002 4:16 PM
     Subject: [wxsig] RE: Wind direction errors

          Yes, Clay
          I am building the Bray Baro. Also have been getting

Will's advice on adding a module to his assembly
code to add to the T238.

I am obviously not well schooled in binary arith.,
so was looking for Will's help.

Do you have one of the Bray devices? results?
Byron

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] RE: Wind direction errors

From: "Clay Bartholow W0LED" <bc010001@mn.state.net>
Date: Sun, 17 Mar 2002 20:24:20 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69302-2002.03.17-20.57.19--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks Ed!

You're right. I saw they had that available and completely forgot about it.
This'll give me an excuse to order a couple other PCBs from them as well.

Thanks again!

Clay

----- Original Message -----
From: "Ed L Locklear, KF4CHG" <kf4chg@earthlink.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Sunday, March 17, 2002 5:39 PM
Subject: [wxsig] RE: Wind direction errors

> Clay,
>
> I would recommend buying the V2 PCB from Far Circuits. The board is
> only $4.00 + S&H, which I just received this past week. Nice looking
> PCB and will be a lot easier than hard wiring. Here is the URL:
>
> http://www.farcircuits.net/misc1.htm
>
> Ed KF4CHG
>
>
> Hi Byron, I have the parts, I'm just looking for some time to wire it
> together. I'm just going to assemble it on a prototyping board sorta
> like David Bray shows on his web site (like the kind you can get at
> Radio Shack). I've got enough parts to build two so I'm going to build
> one for 5 volts and another for 12 volts (to the op amp) to try to get a
> little better resolution. Clay
>
>   ----- Original Message -----
>   From: Byron D. Lichtenwalner
>   To: TAPR WX Special Interest Group
>   Sent: Saturday, March 16, 2002 4:16 PM
>   Subject: [wxsig] RE: Wind direction errors
>
>
>   Yes, Clay
>   I am building the Bray Baro. Also have been getting
>   Will's advice on adding a module to his assembly
>   code to add to the T238.
>
>   I am obviously not well schooled in binary arith.,
>   so was looking for Will's help.
>
>   Do you have one of the Bray devices? results?
>   Byron
>
>
> ---
> You are currently subscribed to wxsig as: w0led@arrl.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] RE: Wind direction errors

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sun, 17 Mar 2002 22:29:59 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69313-2002.03.17-22.04.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Clay
I thought about building my barometer on the prototyping area of the T-238, but instead used most of it to attach mt Real time clock.

I bought 4 boards from FAR to build my circuit.(Lazy I guess). Wanted to also do a humidity sensor.
I will use the 10 volt version, but instead of putting it on the 1wire bus system using RJ11, I will attach mine to the J6 header on the t238. I used the unconnected pin 12 for the 12 volt source by running a jumper from J6, Pin 12 to the choke on the 12 volt input connector. It then has at least some filtering.
Using the RJ 11 sockets on the Far circuit board then lets me expand to other applications using 12 volts (or I may route 10 volts regulated to them using that connector as a hub.)

Let me know what you think about these ideas.
Byron

17. [wxsig] RE: Wind direction errors

From: "Clay Bartholow W0LED" <bc010001@mn.state.net>
Date: Mon, 18 Mar 2002 06:17:13 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69365-2002.03.18-06.50.06--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Byron,

I'm just thinking of Will smiling right about now and thinking "That's why I'm waiting for the dust to settle". Code development in the face of a moving target is (usually) not worth it. One design uses 5 volts, another 12, and another 10. Since you are going to write the code for your "version" of the Bray BP sensor board let me know what voltage you are going to use and I will follow suit. I believe you indicated 10 volts. Housing the BP sensor in the T238 enclosure also sounds like a good idea -- I'll have to see how much room I have left inside my box.

I presume (oops, an error on my part...) that your code will allow somehow for the variable local elevation that needs to be corrected differently at each station.

73,

Clay
W0LED

> ----- Original Message -----
> From: Byron D. Lichtenwalner
> To: TAPR WX Special Interest Group
> Sent: Sunday, March 17, 2002 9:29 PM
> Subject: [wxsig] RE: Wind direction errors
>
> Hi Clay
> I thought about building my barometer on the prototyping area of the T-238, but instead used most of it to attach mt Real time clock.
>
> I bought 4 boards from FAR to build my circuit.(Lazy I guess). Wanted to also do a humidity sensor.
> I will use the 10 volt version, but instead of putting it on the 1wire bus system using RJ11, I will attach mine to the J6 header on the t238. I used the unconnected pin 12 for the 12 volt source by running a jumper from J6, Pin 12 to the choke on the 12 volt input connector. It then has at least some filtering.
> Using the RJ 11 sockets on the Far circuit board then lets me expand to other applications using 12 volts (or I may route 10 volts regulated to them using that connector as a hub.)
>
> Let me know what you think about these ideas.
> Byron

18. [wxsig] Barometers

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Mon, 18 Mar 2002 17:10:15 -0500

To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69499-2002.03.18-16.57.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay, excuse me for changing Subjects, but seems we have been on Barometers for some time.

I am building the 10 volt version. At one time I considered using an 8 bit configeration, and running the analogoutput directly to the 908. In following the discussions on Dall. Board, some how seemedmost were trying to get more accuracy than just normal drift/noise would allow from a simple circuit, but the fact that the circuit could be used for humidity and BP, decided what the heck, for one small chip, put it all on the network.

Yes, I am planning to allow the Bray board to be calibrated at Sea level, then adding an offset to the calculation for altitude. Did some exploring last night and found a close approximation on altitude impact should be possible. (Looks like .015 volts added for each 1000 ft until values above 5000 ft. Then a new constant will be needed.

The barometer will probably need VERY small adjustment of the offset onlt, thereby simplyfing the adjustment for altitude. I didn't want to have everyone having to go back thru all their adjustment prosedure with some of the interaction of offset and gain in the design
Byron

19. [wxsig] Wind Direction Inoperable

From: "Robin De Vore" <myponga@attglobal.net>
Date: Mon, 18 Mar 2002 19:14:12
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69555-2002.03.18-19.46.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have the AAG Version 3 and the wind direction does not work with the
T-238 (100% errors). During the setup, I get message #16 rather than
message #17 suggesting software isn't recognizing the DS2450? It does work
with the 1-wire software and I verified the voltages of the AD in the
i-viewer. I get 4.6 for H, 2.3 for M with only one sensor closed, 3.18 for
M with two sensors closed and 0.06 for L. The id for my 2450 is
48000000008BF220.

Any suggestions?

Regards,

Robin De Vore

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

20. [wxsig] Re: Wind Direction Inoperable

From: Arnold Harding <kq6di@attbi.com>
Date: Mon, 18 Mar 2002 17:28:47 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69557-2002.03.18-20.01.26--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

version 1.12.1 is where AAG Version 3 wind sensor support begins. This could
be your problem. Downloading new software into the T-238 isn't painful.

Arnold Harding

Robin De Vore wrote:
>
> I have the AAG Version 3 and the wind direction does not work with the
> T-238 (100% errors). During the setup, I get message #16 rather than
> message #17 suggesting software isn't recognizing the DS2450? It does work
> with the 1-wire software and I verified the voltages of the AD in the
> i-viewer. I get 4.6 for H, 2.3 for M with only one sensor closed, 3.18 for
> M with two sensors closed and 0.06 for L. The id for my 2450 is
> 48000000008BF220.
>
> Any suggestions?
>
> Regards,
>
> Robin De Vore
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

21. [wxsig] Re: Wind Direction Inoperable

From: "William Beals" <will@beals5.com>
Date: Mon, 18 Mar 2002 19:52:07 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69574-2002.03.18-21.23.55--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Robin:

Hopefully this is the issue. Just in case, the website for downloads is
http://www.beals5.com/wx.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Arnold Harding
Sent: Monday, March 18, 2002 6:29 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: Wind Direction Inoperable

version 1.12.1 is where AAG Version 3 wind sensor support begins. This
could
be your problem. Downloading new software into the T-238 isn't painful.

Arnold Harding

Robin De Vore wrote:
>
> I have the AAG Version 3 and the wind direction does not work with the
> T-238 (100% errors). During the setup, I get message #16 rather than
> message #17 suggesting software isn't recognizing the DS2450? It does work
> with the 1-wire software and I verified the voltages of the AD in the
> i-viewer. I get 4.6 for H, 2.3 for M with only one sensor closed, 3.18 for
> M with two sensors closed and 0.06 for L. The id for my 2450 is
> 48000000008BF220.
>
> Any suggestions?
>
> Regards,
>
> Robin De Vore
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

22. [wxsig] RE: Wind Direction Inoperable

From: "Robin De Vore" <myponga@attglobal.net>
Date: Mon, 18 Mar 2002 20:13:37 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69577-2002.03.18-21.47.44--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Problem solved. The T238 I just received from TAPR had version 1.11.1. I
checked everything but never thought to check the firmware. Thanks Arnold.

Regards,

Robin De Vore

-----Original Message-----
From: Arnold Harding [mailto:kq6di@attbi.com]
Sent: Monday, March 18, 2002 6:29 PM
To: TAPR WX Special Interest Group; Robin De Vore

Subject: Re: [wxsig] Wind Direction Inoperable

version 1.12.1 is where AAG Version 3 wind sensor support begins. This could
be your problem. Downloading new software into the T-238 isn't painful.

Arnold Harding

Robin De Vore wrote:
>
> I have the AAG Version 3 and the wind direction does not work with the
> T-238 (100% errors). During the setup, I get message #16 rather than
> message #17 suggesting software isn't recognizing the DS2450? It does work
> with the 1-wire software and I verified the voltages of the AD in the
> i-viewer. I get 4.6 for H, 2.3 for M with only one sensor closed, 3.18 for
> M with two sensors closed and 0.06 for L. The id for my 2450 is
> 48000000008BF220.
>
> Any suggestions?
>
> Regards,
>
> Robin De Vore
>
> ---
> You are currently subscribed to wxsig as: kq6di@attbi.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

23. [wxsig] findu.com backup server donation status

From: Guy.Story@levi.flyingpig.net, KC5GOI <kc5goi@kc5goi.net>
Date: Wed, 20 Mar 2002 08:38:31 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69867-2002.03.20-09.18.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Sorry for the delay on the update. The findu.com backup server status page
has been updated. We are now at $1490. The first round of checks arrived at
the TAPR office in Denton this week. The mail box for the DCARC gets checked
every 2 weeks and I do not have a complete final count on the APRS+ offer
just yet. Brent has sent those to the DCARC address so I should see the
final count by 29th of March. We still are not half way. Please forward or
notify any groups that may have interest in this project. Thank you for the
help everyone. We can make this happen.

73

--
Guy Story, KC5GOI
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

24. [wxsig] Re: findu.com backup server donation status

From: Mark Phillips <g7ltt@g7ltt.com>
Date: Wed, 20 Mar 2002 10:36:06 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69877-2002.03.20-10.08.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I've obviously missed out on this one. What are we raising money for and
why?

> Sorry for the delay on the update. The findu.com backup server status
page
> has been updated. We are now at $1490. The first round of checks arrived
at
> the TAPR office in Denton this week. The mail box for the DCARC gets
checked

>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

25. [wxsig] Re: findu.com backup server donation status

From: Guy.Story@levi.flyingpig.net, KC5GOI <kc5goi@kc5goi.net>
Date: Wed, 20 Mar 2002 11:40:15 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69894-2002.03.20-12.20.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mark, visit www.kc5goi.net/findu. The details are there.

73

Guy

On Wednesday 20 March 2002 09:36 am, you wrote:
> I've obviously missed out on this one. What are we raising money for and
> why?
>
> > Sorry for the delay on the update. The findu.com backup server status
>
> page
>
> > has been updated. We are now at $1490. The first round of checks
> > arrived
>
> at
>
> > the TAPR office in Denton this week. The mail box for the DCARC gets
>
> checked
>
>
>
> ---
> You are currently subscribed to wxsig as: kc5goi@tapr.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

--
Guy Story, KC5GOI
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

26. [wxsig] RE: Wind direction errors

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Wed, 20 Mar 2002 20:54:57 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-69943-2002.03.20-20.31.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay
Be aware that the Far boards do not use the 78x10 regulators. The board is
dirlled for a small regulator, one of the LM series. (CK the schematic for
the version 3 for the power supply info.
Byron
----- Original Message -----
From: Clay Bartholow W0LED <bc010001@mn.state.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Sunday, March 17, 2002 9:24 PM
Subject: [wxsig] RE: Wind direction errors

> Thanks Ed!
>
> You're right. I saw they had that available and completely forgot about
it.
> This'll give me an excuse to order a couple other PCBs from them as well.
>
> Thanks again!

>
> Clay
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

27. [wxsig] RE: Barometer

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sat, 23 Mar 2002 11:23:21 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-70365-2002.03.23-11.00.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Good morning Clay
  Here is an update on what I found with the calibration of the Bray Barometer, software vs. hardware adjustments.

  The voltage output of the Bray circuit varies more than the rail to rail voltage allows if calibrated at Sea level, and taken just as high as 1000 ft. (The lower voltage for a 28 to 31 in Hg setting would drive the 28" setting to a negative number, which of course isn't possible.) So looks like a recalibration of at least the set point pot will be necessary. Depending on how far that has to be moved, a gain recalibration may also be necessary.

  I am going forward with the assumption that a user will do the calibration for his Height above Sea level, then will be able to trim using near-by wx stations to bring it right on the button.

  I plan to put up a screen on the t238 that will allow this adjustment.

  Thoughts?
  Byron

28. [wxsig] findu.com backup server donation status

From: Guy.Story@levi.flyingpig.net, KC5GOI <kc5goi@kc5goi.net>
Date: Wed, 27 Mar 2002 00:19:43 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-70904-2002.03.27-01.02.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I updated the web page tonight and was able to build up a spread sheet to tabulate the amounts we have in hand. We are at the $3200 and change level in hand. For those of you who sent in checks, I am going to turn over the checks to the treasure wednesday for processing. I want to thank WA6OTF and KH2Z for stepping up to the plate to help.   I have also had one email stating they could help provide bandwidth should the need arrise and one inperson offer. Thanks guys for the offer. If the need comes up I will be sure to take you up on the offer. We are still not at the $3500 mark, $4000 would be the icing on the cake. If you have not already, you could bring up the findu.com backup server to your local clubs or others not on the APRS lists.

73

--
Guy Story, KC5GOI
Denton Texas
kc5goi@kc5goi.net

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

29. [wxsig] findu.com backup server status page

From: Guy.Story@levi.flyingpig.net, KC5GOI <kc5goi@kc5goi.net>
Date: Thu, 28 Mar 2002 08:36:56 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-71113-2002.03.28-09.17.55--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello everyone. I received a request to repost the urls for the findu.com information. Here it is.

http://www.kc5goi.net/findu

and ths status page

http://www.kc5goi.net/findu/status.html

--
Guy Story, KC5GOI
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

30. [wxsig] Re: findu.com backup server status page

From: "Patrick Karp" <pkarp@conwaycorp.net>
Date: Thu, 28 Mar 2002 09:59:29 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-71124-2002.03.28-10.34.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello Guy
    I suggest creating a Signature with the findu.com info in it.
Instead of going around all the Ham related groups and posting off
topic infomation requesting donation or directions to such
information.   I consider the repeated posting of off topic
information as SPAM.   I don't thing that kind of reputation is what
you or Findu.com want to have.
73
Pat
----- Original Message -----
From: <Guy.Story@levi.flyingpig.net>; "KC5GOI" <kc5goi@kc5goi.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Thursday, March 28, 2002 8:36 AM
Subject: [wxsig] findu.com backup server status page

> Hello everyone. I received a request to repost the urls for the
findu.com
> information. Here it is.
>
> http://www.kc5goi.net/findu
>
> and ths status page
>
> http://www.kc5goi.net/findu/status.html
>
> --
> Guy Story, KC5GOI
> Itel-Tigerbyte LLC
> gstory@tigerbyte.com
> 940.891.4575
>
> ---
> You are currently subscribed to wxsig as: pkarp@conwaycorp.net
> To unsubscribe send a blank email to
leave-wxsig-15067P@lists.tapr.org
>
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

31. [wxsig] Re: findu.com backup server status page

From: Alan Heaberlin <w6amh@yahoo.com>
Date: Fri, 29 Mar 2002 13:14:56 -0800 (PST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-71401-2002.03.29-15.48.06--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Patrick,
Since you exercised the option to make your comments
to Guy on the SIG I feel it appropriate to respond
with my own thoughts on the subject.
findu.com provides a unique and irreplaceable service
to the Amateur community AND to everyone interested in
utilizing WX observations that are ported to APRS. I

don't believe this is off-topic for either WX or Ham
radio groups and there are probably othere things Guy
would rather be doing anyway. This is a NON-COMMERCIAL
venture so does not fit even the loosest definition of
SPAM. We are trying to raise money for an
extraordinarily worthy cause. If you don't want to see
the postings, use the delete key. Guy has been
assiduous about describing his postings on this matter
in the subject line.
Alan Heaberlin W6AMH
--- Patrick Karp <pkarp@conwaycorp.net> wrote:
> Hello Guy
>   I suggest creating a Signature with the
> findu.com info in it.
> Instead of going around all the Ham related groups
> and posting off
> topic infomation requesting donation or directions
> to such
> information.   I consider the repeated posting of
> off topic
> information as SPAM.   I don't thing that kind of
> reputation is what
> you or Findu.com want to have.
> 73
> Pat
> ----- Original Message -----
> From: <Guy.Story@levi.flyingpig.net>; "KC5GOI"
> <kc5goi@kc5goi.net>
> To: "TAPR WX Special Interest Group"
> <wxsig@lists.tapr.org>
> Sent: Thursday, March 28, 2002 8:36 AM
> Subject: [wxsig] findu.com backup server status page
>
>
> > Hello everyone. I received a request to repost
> the urls for the
> findu.com
> > information. Here it is.
> >
> > http://www.kc5goi.net/findu
> >
> > and ths status page
> >
> > http://www.kc5goi.net/findu/status.html
> >
> > --
> > Guy Story, KC5GOI
> > Itel-Tigerbyte LLC
> > gstory@tigerbyte.com
> > 940.891.4575
> >
> > ---
> > You are currently subscribed to wxsig as:
> pkarp@conwaycorp.net
> > To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
> >
> >
> >
>
>
> ---
> You are currently subscribed to wxsig as:
> w6amh@yahoo.com
> To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
>

_____
Do You Yahoo!?
Yahoo! Greetings - send holiday greetings for Easter, Passover
http://greetings.yahoo.com/

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

32. [wxsig] Re: findu.com backup server status page

From: "Patrick Karp" <pkarp@conwaycorp.net>
Date: Fri, 29 Mar 2002 16:44:25 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-71427-2002.03.29-17.19.27--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I was offering an alturnative way for Guy to do the same thing. I
have nothing against Findu.com and wish him the best in his fund
razer.

It can be considered spam when it is to socialiciate funds for this
venture. I've recieved copies of his post on every Ham/WX related
yahoo group that I get. Even in one of Guys first post on the subject
he mentioned the fact that his post might be considered as SPAM.
 I didnt realize my post even made it to the board because I never
recieved a copy of it. Hmmm   I did not state that I was against
findu.com in anyway.

PEASE do not through that NON-COMMERCIAL at me. That could get ugly
and I really don't think anyone here is interested anyway.
73
Pat
----- Original Message -----
From: "Alan Heaberlin" <w6amh@yahoo.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Friday, March 29, 2002 3:14 PM
Subject: [wxsig] Re: findu.com backup server status page

> Patrick,
> Since you exercised the option to make your comments
> to Guy on the SIG I feel it appropriate to respond
> with my own thoughts on the subject.
> findu.com provides a unique and irreplaceable service
> to the Amateur community AND to everyone interested in
> utilizing WX observations that are ported to APRS. I
> don't believe this is off-topic for either WX or Ham
> radio groups and there are probably othere things Guy
> would rather be doing anyway. This is a NON-COMMERCIAL
> venture so does not fit even the loosest definition of
> SPAM. We are trying to raise money for an
> extraordinarily worthy cause. If you don't want to see
> the postings, use the delete key. Guy has been
> assiduous about describing his postings on this matter
> in the subject line.
> Alan Heaberlin W6AMH
> --- Patrick Karp <pkarp@conwaycorp.net> wrote:
> > Hello Guy
> >   I suggest creating a Signature with the
> > findu.com info in it.
> > Instead of going around all the Ham related groups
> > and posting off
> > topic infomation requesting donation or directions
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> > off topic
> > information as SPAM.   I don't thing that kind of
> > reputation is what
> > you or Findu.com want to have.
> > 73
> > Pat
> > ----- Original Message -----
> > From: <Guy.Story@levi.flyingpig.net>; "KC5GOI"
> > <kc5goi@kc5goi.net>
> > To: "TAPR WX Special Interest Group"
> > <wxsig@lists.tapr.org>
> > Sent: Thursday, March 28, 2002 8:36 AM
> > Subject: [wxsig] findu.com backup server status page
> >
> >
> > > Hello everyone. I received a request to repost
> > the urls for the
> > findu.com
> > > information. Here it is.
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> > > http://www.kc5goi.net/findu
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> > > and ths status page

> > >
> > > http://www.kc5goi.net/findu/status.html
> > >
> > > --
> > > Guy Story, KC5GOI
> > > Itel-Tigerbyte LLC
> > > gstory@tigerbyte.com
> > > 940.891.4575
> > >
> > > ---
> > > You are currently subscribed to wxsig as:
> > pkarp@conwaycorp.net
> > > To unsubscribe send a blank email to
> > leave-wxsig-15067P@lists.tapr.org
> > >
> > >
> > >
> >
> >
> > ---
> > You are currently subscribed to wxsig as:
> > w6amh@yahoo.com
> > To unsubscribe send a blank email to
> > leave-wxsig-15067P@lists.tapr.org
> >
>
>
> ____
> Do You Yahoo!?
> Yahoo! Greetings - send holiday greetings for Easter, Passover
> http://greetings.yahoo.com/
>
> ---
> You are currently subscribed to wxsig as: pkarp@conwaycorp.net
> To unsubscribe send a blank email to
leave-wxsig-15067P@lists.tapr.org
>
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

33. [wxsig] Re: findu.com backup server status page

From: Alan Heaberlin <w6amh@yahoo.com>
Date: Fri, 29 Mar 2002 16:02:01 -0800 (PST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-71441-2002.03.29-18.35.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I never said you were against findu.com.
Once the money has been raised (and I believe we're
almost there) there won't be any reason for any posts
about the backup server.
My point, which was apparently missed by you, was that
if you choose to scold someone on a public SIG be
prepared for an ensuing discussion. I'm not interested
in getting into a pissing contest with you, but I'm
not sure you're the best qualified person to offer
advice about non-profit fundraising.
I'm also not sure what you mean by
"> PEASE do not through (sic) that NON-COMMERCIAL at
me.
> That could get ugly"
I'll finish my input here:
I donated money to the findu.com backup server. Did
you?
Alan Heaberlin

--- Patrick Karp <pkarp@conwaycorp.net> wrote:
> I was offering an alturnative way for Guy to do the
> same thing.   I
> have nothing against Findu.com and wish him the best
> in his fund
> razer.
>
> It can be considered spam when it is to socialiciate

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> venture.   I've recieved copies of his post on every
> Ham/WX related
> yahoo group that I get. Even in one of Guys first
> post on the subject
> he mentioned the fact that his post might be
> considered as SPAM.
> I didnt realize my post even made it to the board
> because I never
> recieved a copy of it. Hmmm   I did not state that
> I was against
> findu.com in anyway.
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> PEASE do not through that NON-COMMERCIAL at me.
> That could get ugly
> and I really don't think anyone here is interested
> anyway.
> 73
> Pat
> ----- Original Message -----
> From: "Alan Heaberlin" <w6amh@yahoo.com>
> To: "TAPR WX Special Interest Group"
> <wxsig@lists.tapr.org>
> Sent: Friday, March 29, 2002 3:14 PM
> Subject: [wxsig] Re: findu.com backup server status
> page
>
>
> > Patrick,
> > Since you exercised the option to make your
> comments
> > to Guy on the SIG I feel it appropriate to respond
> > with my own thoughts on the subject.
> > findu.com provides a unique and irreplaceable
> service
> > to the Amateur community AND to everyone
> interested in
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> I
> > don't believe this is off-topic for either WX or
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> > radio groups and there are probably othere things
> Guy
> > would rather be doing anyway. This is a
> NON-COMMERCIAL
> > venture so does not fit even the loosest
> definition of
> > SPAM. We are trying to raise money for an
> > extraordinarily worthy cause. If you don't want to
> see
> > the postings, use the delete key. Guy has been
> > assiduous about describing his postings on this
> matter
> > in the subject line.
> > Alan Heaberlin W6AMH
> > --- Patrick Karp <pkarp@conwaycorp.net> wrote:
> > > Hello Guy
> > >   I suggest creating a Signature with the
> > > findu.com info in it.
> > > Instead of going around all the Ham related
> groups
> > > and posting off
> > > topic infomation requesting donation or
> directions
> > > to such
> > > information.   I consider the repeated posting
> of
> > > off topic
> > > information as SPAM.   I don't thing that kind
> of
> > > reputation is what
> > > you or Findu.com want to have.
> > > 73
> > > Pat
> > > ----- Original Message -----
> > > From: <Guy.Story@levi.flyingpig.net>; "KC5GOI"
> > > <kc5goi@kc5goi.net>
> > > To: "TAPR WX Special Interest Group"
> > > <wxsig@lists.tapr.org>

> > > Sent: Thursday, March 28, 2002 8:36 AM
> > > Subject: [wxsig] findu.com backup server status
> page
> > >
> > >
> > > > Hello everyone. I received a request to
> repost
> > > the urls for the
> > > findu.com
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> > > > and ths status page
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> > > > http://www.kc5goi.net/findu/status.html
> > > >
> > > > --
> > > > Guy Story, KC5GOI
> > > > Itel-Tigerbyte LLC
> > > > gstory@tigerbyte.com
> > > > 940.891.4575
> > > >
> > > > ---
> > > > You are currently subscribed to wxsig as:
> > > pkarp@conwaycorp.net
> > > > To unsubscribe send a blank email to
> > > leave-wxsig-15067P@lists.tapr.org
> > > >
> > > >
> > > >
> > > >
> > >
> > >
> > > ---
> > > You are currently subscribed to wxsig as:
> > > w6amh@yahoo.com
> > > To unsubscribe send a blank email to
> > > leave-wxsig-15067P@lists.tapr.org
> > >
> >
> >
> > ____
> > Do You Yahoo!?
> > Yahoo! Greetings - send holiday greetings for
> Easter, Passover
> > http://greetings.yahoo.com/
> >
> > ---
> > You are currently subscribed to wxsig as:
> pkarp@conwaycorp.net
> > To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
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> >
>
>
> ---
> You are currently subscribed to wxsig as:
> w6amh@yahoo.com
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> leave-wxsig-15067P@lists.tapr.org
>

____
Do You Yahoo!?
Yahoo! Greetings - send holiday greetings for Easter, Passover
http://greetings.yahoo.com/

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

34. [wxsig] Re: findu.com backup server status page

From: "Patrick Karp" <pkarp@conwaycorp.net>
Date: Fri, 29 Mar 2002 18:39:52 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>

Message-ID: <LYR15067-71445-2002.03.29-19.14.41--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ouch now I scolded someone and I'm not qualified to give advice? And
you have not a clue as to who I am and what I do! LOL I simple gave
my advice and the reasons for it. It is up to Guy to use the advice!
Hmm I wonder what reason you have for asking if I donated to
findu.com? Was this to make me look bad? Lets see the Ham Sats
cost allot of money and offer more then findu.com to Amateur radio and
I did not send them any money. Oh wait I don't use the Ham Sats or
findu.com maybe that's why I did not help to fund them. But I would
not discourage anyone who is interested in them to donate! Now I do
read messages form this message board so I do believe I should be
allowed to voice my opinion on SPAM here. This will be my last post
on this subject!
73
Pat
----- Original Message -----
From: "Alan Heaberlin" <w6amh@yahoo.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Friday, March 29, 2002 6:02 PM
Subject: [wxsig] Re: findu.com backup server status page

> I never said you were against findu.com.
> Once the money has been raised (and I believe we're
> almost there) there won't be any reason for any posts
> about the backup server.
> My point, which was apparently missed by you, was that
> if you choose to scold someone on a public SIG be
> prepared for an ensuing discussion. I'm not interested
> in getting into a pissing contest with you, but I'm
> not sure you're the best qualified person to offer
> advice about non-profit fundraising.
> I'm also not sure what you mean by
> "> PEASE do not through (sic) that NON-COMMERCIAL at
> me.
> > That could get ugly"
> I'll finish my input here:
> I donated money to the findu.com backup server. Did
> you?
> Alan Heaberlin
>
> --- Patrick Karp <pkarp@conwaycorp.net> wrote:
> > I was offering an alturnative way for Guy to do the
> > same thing. I
> > have nothing against Findu.com and wish him the best
> > in his fund
> > razer.
> >
> > It can be considered spam when it is to socialiciate
> > funds for this
> > venture. I've recieved copies of his post on every
> > Ham/WX related
> > yahoo group that I get. Even in one of Guys first
> > post on the subject
> > he mentioned the fact that his post might be
> > considered as SPAM.
> > I didnt realize my post even made it to the board
> > because I never
> > recieved a copy of it. Hmmm I did not state that
> > I was against
> > findu.com in anyway.
> >
> > PEASE do not through that NON-COMMERCIAL at me.
> > That could get ugly
> > and I really don't think anyone here is interested
> > anyway.
> > 73
> > Pat
> > ----- Original Message -----
> > From: "Alan Heaberlin" <w6amh@yahoo.com>
> > To: "TAPR WX Special Interest Group"
> > <wxsig@lists.tapr.org>
> > Sent: Friday, March 29, 2002 3:14 PM
> > Subject: [wxsig] Re: findu.com backup server status
> > page
> >
> >
> > > Patrick,

> > > Since you exercised the option to make your
> > comments
> > > to Guy on the SIG I feel it appropriate to respond
> > > with my own thoughts on the subject.
> > > findu.com provides a unique and irreplaceable
> > service
> > > to the Amateur community AND to everyone
> > interested in
> > > utilizing WX observations that are ported to APRS.
> > I
> > > don't believe this is off-topic for either WX or
> > Ham
> > > radio groups and there are probably othere things
> > Guy
> > > would rather be doing anyway. This is a
> > NON-COMMERCIAL
> > > venture so does not fit even the loosest
> > definition of
> > > SPAM. We are trying to raise money for an
> > > extraordinarily worthy cause. If you don't want to
> > see
> > > the postings, use the delete key. Guy has been
> > > assiduous about describing his postings on this
> > matter
> > > in the subject line.
> > > Alan Heaberlin W6AMH
> > > --- Patrick Karp <pkarp@conwaycorp.net> wrote:
> > > > Hello Guy
> > > >   I suggest creating a Signature with the
> > > > findu.com info in it.
> > > > Instead of going around all the Ham related
> > groups
> > > > and posting off
> > > > topic infomation requesting donation or
> > directions
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> > of
> > > > off topic
> > > > information as SPAM.   I don't thing that kind
> > of
> > > > reputation is what
> > > > you or Findu.com want to have.
> > > > 73
> > > > Pat
> > > > ----- Original Message -----
> > > > From: <Guy.Story@levi.flyingpig.net>; "KC5GOI"
> > > > <kc5goi@kc5goi.net>
> > > > To: "TAPR WX Special Interest Group"
> > > > <wxsig@lists.tapr.org>
> > > > Sent: Thursday, March 28, 2002 8:36 AM
> > > > Subject: [wxsig] findu.com backup server status
> > page
> > > >
> > > >
> > > > > Hello everyone. I received a request to
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> > > > > Guy Story, KC5GOI
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> > > > > gstory@tigerbyte.com
> > > > > 940.891.4575
> > > > >
> > > > > ---
> > > > > You are currently subscribed to wxsig as:
> > > > pkarp@conwaycorp.net
> > > > > To unsubscribe send a blank email to
> > > > leave-wxsig-15067P@lists.tapr.org
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> > > > >
> > > > >
> > > >
> > > >
> > > > ---
> > > > You are currently subscribed to wxsig as:
> > > > w6amh@yahoo.com
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> > >
> > >
> > > _____
> > > Do You Yahoo!?
> > > Yahoo! Greetings - send holiday greetings for
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> You are currently subscribed to wxsig as: pkarp@conwaycorp.net
> To unsubscribe send a blank email to
leave-wxsig-15067P@lists.tapr.org
>
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

35. [wxsig] Re: findu.com backup server status page

From: "Dave & Sheri Yonts" <kb5uok@nts-online.net>
Date: Fri, 29 Mar 2002 19:17:03 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-71449-2002.03.29-19.50.20--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This may sound like a crazy question, but, what is findu.com exactly?
Dave

-----Original Message-----
From: bounce-wxsig-28414@lists.tapr.org
[mailto:bounce-wxsig-28414@lists.tapr.org]On Behalf Of Patrick Karp
Sent: Friday, March 29, 2002 6:40 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: findu.com backup server status page

Ouch now I scolded someone and I'm not qualified to give advice? And
you have not a clue as to who I am and what I do! LOL I simple gave
my advice and the reasons for it. It is up to Guy to use the advice!
Hmm I wonder what reason you have for asking if I donated to
findu.com? Was this to make me look bad? Lets see the Ham Sats
cost allot of money and offer more then findu.com to Amateur radio and
I did not send them any money. Oh wait I don't use the Ham Sats or

findu.com maybe that's why I did not help to fund them. But I would
not discourage anyone who is interested in them to donate! Now I do
read messages form this message board so I do believe I should be
allowed to voice my opinion on SPAM here.   This will be my last post
on this subject!
73
Pat
----- Original Message -----
From: "Alan Heaberlin" <w6amh@yahoo.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Friday, March 29, 2002 6:02 PM
Subject: [wxsig] Re: findu.com backup server status page

> I never said you were against findu.com.
> Once the money has been raised (and I believe we're
> almost there) there won't be any reason for any posts
> about the backup server.
> My point, which was apparently missed by you, was that
> if you choose to scold someone on a public SIG be
> prepared for an ensuing discussion. I'm not interested
> in getting into a pissing contest with you, but I'm
> not sure you're the best qualified person to offer
> advice about non-profit fundraising.
> I'm also not sure what you mean by
> "> PEASE do not through (sic) that NON-COMMERCIAL at
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> > That could get ugly"
> I'll finish my input here:
> I donated money to the findu.com backup server. Did
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> > and I really don't think anyone here is interested
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> > Pat
> > ----- Original Message -----
> > From: "Alan Heaberlin" <w6amh@yahoo.com>
> > To: "TAPR WX Special Interest Group"
> > <wxsig@lists.tapr.org>
> > Sent: Friday, March 29, 2002 3:14 PM
> > Subject: [wxsig] Re: findu.com backup server status
> > page
> >
> >
> > > Patrick,
> > > Since you exercised the option to make your
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> > > findu.com provides a unique and irreplaceable
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> > I
> > > don't believe this is off-topic for either WX or
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> > > Alan Heaberlin W6AMH
> > > --- Patrick Karp <pkarp@conwaycorp.net> wrote:
> > > > Hello Guy
> > > >   I suggest creating a Signature with the
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> > > > Instead of going around all the Ham related
> > groups
> > > > and posting off
> > > > topic infomation requesting donation or
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> > > > information.   I consider the repeated posting
> > of
> > > > off topic
> > > > information as SPAM.   I don't thing that kind
> > of
> > > > reputation is what
> > > > you or Findu.com want to have.
> > > > 73
> > > > Pat
> > > > ----- Original Message -----
> > > > From: <Guy.Story@levi.flyingpig.net>; "KC5GOI"
> > > > <kc5goi@kc5goi.net>
> > > > To: "TAPR WX Special Interest Group"
> > > > <wxsig@lists.tapr.org>
> > > > Sent: Thursday, March 28, 2002 8:36 AM
> > > > Subject: [wxsig] findu.com backup server status
> > page
> > > >
> > > >
> > > > > Hello everyone. I received a request to
> > repost
> > > > the urls for the
> > > > findu.com
> > > > > information. Here it is.
> > > > >
> > > > > http://www.kc5goi.net/findu
> > > > >
> > > > > and ths status page
> > > > >
> > > > > http://www.kc5goi.net/findu/status.html
> > > > >
> > > > > --
> > > > > Guy Story, KC5GOI
> > > > > Itel-Tigerbyte LLC
> > > > > gstory@tigerbyte.com
> > > > > 940.891.4575
> > > > >
> > > > > ---
> > > > > You are currently subscribed to wxsig as:
> > > > pkarp@conwaycorp.net
> > > > > To unsubscribe send a blank email to
> > > > leave-wxsig-15067P@lists.tapr.org
> > > > >
> > > > >
> > > > >
> > > >
> > > >
> > > > ---
> > > > You are currently subscribed to wxsig as:
> > > > w6amh@yahoo.com
> > > > To unsubscribe send a blank email to
> > > > leave-wxsig-15067P@lists.tapr.org

> > > >
> > >
> > >
> > > _____
> > > Do You Yahoo!?
> > > Yahoo! Greetings - send holiday greetings for
> > Easter, Passover
> > > http://greetings.yahoo.com/
> > >
> > > ---
> > > You are currently subscribed to wxsig as:
> > pkarp@conwaycorp.net
> > > To unsubscribe send a blank email to
> > leave-wxsig-15067P@lists.tapr.org
> > >
> > >
> > >
> >
> >
> > ---
> > You are currently subscribed to wxsig as:
> > w6amh@yahoo.com
> > To unsubscribe send a blank email to
> > leave-wxsig-15067P@lists.tapr.org
> >
>
>
> _____
> Do You Yahoo!?
> Yahoo! Greetings - send holiday greetings for Easter, Passover
> http://greetings.yahoo.com/
>
> ---
> You are currently subscribed to wxsig as: pkarp@conwaycorp.net
> To unsubscribe send a blank email to
leave-wxsig-15067P@lists.tapr.org
>
>
>

You are currently subscribed to wxsig as: kb5uok@arrl.net
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

36. [wxsig] Re: findu.com backup server status page

From: Guy.Story@levi.flyingpig.net, KC5GOI <kc5goi@kc5goi.net>
Date: Fri, 29 Mar 2002 22:02:31 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-71465-2002.03.29-22.43.53--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Dave, let me send you to www.findu.com. That is the best place to look.
Read over the home page and it will give you an introduction. If you have
any other questions, feel free to ask.

73

Guy

On Friday 29 March 2002 07:17 pm, you wrote:
> This may sound like a crazy question, but, what is findu.com exactly?
> Dave
>
> -----Original Message-----
> From: bounce-wxsig-28414@lists.tapr.org
> [mailto:bounce-wxsig-28414@lists.tapr.org]On Behalf Of Patrick Karp
> Sent: Friday, March 29, 2002 6:40 PM
> To: TAPR WX Special Interest Group
> Subject: [wxsig] Re: findu.com backup server status page
>
>
> Ouch now I scolded someone and I'm not qualified to give advice?   And

> you have not a clue as to who I am and what I do!   LOL I simple gave
> my advice and the reasons for it.   It is up to Guy to use the advice!
> Hmm I wonder what reason you have for asking if I donated to
> findu.com?   Was this to make me look bad?   Lets see the Ham Sats
> cost allot of money and offer more then findu.com to Amateur radio and
> I did not send them any money. Oh wait I don't use the Ham Sats or
> findu.com maybe that's why I did not help to fund them. But I would
> not discourage anyone who is interested in them to donate! Now I do
> read messages form this message board so I do believe I should be
> allowed to voice my opinion on SPAM here.   This will be my last post
> on this subject!
> 73
> Pat
> ----- Original Message -----
> From: "Alan Heaberlin" <w6amh@yahoo.com>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Friday, March 29, 2002 6:02 PM
> Subject: [wxsig] Re: findu.com backup server status page
>
> > I never said you were against findu.com.
> > Once the money has been raised (and I believe we're
> > almost there) there won't be any reason for any posts
> > about the backup server.
> > My point, which was apparently missed by you, was that
> > if you choose to scold someone on a public SIG be
> > prepared for an ensuing discussion. I'm not interested
> > in getting into a pissing contest with you, but I'm
> > not sure you're the best qualified person to offer
> > advice about non-profit fundraising.
> > I'm also not sure what you mean by
> > "> PEASE do not through (sic) that NON-COMMERCIAL at
> > me.
> >
> > > That could get ugly"
> >
> > I'll finish my input here:
> > I donated money to the findu.com backup server. Did
> > you?
> > Alan Heaberlin
> >
> > --- Patrick Karp <pkarp@conwaycorp.net> wrote:
> > > I was offering an alturnative way for Guy to do the
> > > same thing.   I
> > > have nothing against Findu.com and wish him the best
> > > in his fund
> > > razer.
> > >
> > > It can be considered spam when it is to socialiciate
> > > funds for this
> > > venture.   I've recieved copies of his post on every
> > > Ham/WX related
> > > yahoo group that I get. Even in one of Guys first
> > > post on the subject
> > > he mentioned the fact that his post might be
> > > considered as SPAM.
> > > I didnt realize my post even made it to the board
> > > because I never
> > > recieved a copy of it. Hmmm   I did not state that
> > > I was against
> > > findu.com in anyway.
> > >
> > > PEASE do not through that NON-COMMERCIAL at me.
> > > That could get ugly
> > > and I really don't think anyone here is interested
> > > anyway.
> > > 73
> > > Pat
> > > ----- Original Message -----
> > > From: "Alan Heaberlin" <w6amh@yahoo.com>
> > > To: "TAPR WX Special Interest Group"
> > > <wxsig@lists.tapr.org>
> > > Sent: Friday, March 29, 2002 3:14 PM
> > > Subject: [wxsig] Re: findu.com backup server status
> > > page
> > >
> > > > Patrick,
> > > > Since you exercised the option to make your
> > >
> > > comments

> > >
> > > > to Guy on the SIG I feel it appropriate to respond
> > > > with my own thoughts on the subject.
> > > > findu.com provides a unique and irreplaceable
> > >
> > > service
> > >
> > > > to the Amateur community AND to everyone
> > >
> > > interested in
> > >
> > > > utilizing WX observations that are ported to APRS.
> > >
> > > I
> > >
> > > > don't believe this is off-topic for either WX or
> > >
> > > Ham
> > >
> > > > radio groups and there are probably othere things
> > >
> > > Guy
> > >
> > > > would rather be doing anyway. This is a
> > >
> > > NON-COMMERCIAL
> > >
> > > > venture so does not fit even the loosest
> > >
> > > definition of
> > >
> > > > SPAM. We are trying to raise money for an
> > > > extraordinarily worthy cause. If you don't want to
> > >
> > > see
> > >
> > > > the postings, use the delete key. Guy has been
> > > > assiduous about describing his postings on this
> > >
> > > matter
> > >
> > > > in the subject line.
> > > > Alan Heaberlin W6AMH
> > > >
> > > > --- Patrick Karp <pkarp@conwaycorp.net> wrote:
> > > > > Hello Guy
> > > > >   I suggest creating a Signature with the
> > > > > findu.com info in it.
> > > > > Instead of going around all the Ham related
> > >
> > > groups
> > >
> > > > > and posting off
> > > > > topic infomation requesting donation or
> > >
> > > directions
> > >
> > > > > to such
> > > > > information.   I consider the repeated posting
> > >
> > > of
> > >
> > > > > off topic
> > > > > information as SPAM.   I don't thing that kind
> > >
> > > of
> > >
> > > > > reputation is what
> > > > > you or Findu.com want to have.
> > > > > 73
> > > > > Pat
> > > > > ----- Original Message -----
> > > > > From: <Guy.Story@levi.flyingpig.net>; "KC5GOI"
> > > > > <kc5goi@kc5goi.net>
> > > > > To: "TAPR WX Special Interest Group"
> > > > > <wxsig@lists.tapr.org>
> > > > > Sent: Thursday, March 28, 2002 8:36 AM
> > > > > Subject: [wxsig] findu.com backup server status
> > > >

> > > page
> > >
> > > > > > Hello everyone. I received a request to
> > >
> > > repost
> > >
> > > > > the urls for the
> > > > > findu.com
> > > > >
> > > > > > information. Here it is.
> > > > > >
> > > > > > http://www.kc5goi.net/findu
> > > > > >
> > > > > > and ths status page
> > > > > >
> > > > > > http://www.kc5goi.net/findu/status.html
> > > > > >
> > > > > > --
> > > > > > Guy Story, KC5GOI
> > > > > > Itel-Tigerbyte LLC
> > > > > > gstory@tigerbyte.com
> > > > > > 940.891.4575
> > > > > >
> > > > > > ---
> > > > > > You are currently subscribed to wxsig as:
> > > > >
> > > > > pkarp@conwaycorp.net
> > > > >
> > > > > > To unsubscribe send a blank email to
> > > > >
> > > > > leave-wxsig-15067P@lists.tapr.org
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > ---
> > > > > You are currently subscribed to wxsig as:
> > > > > w6amh@yahoo.com
> > > > > To unsubscribe send a blank email to
> > > > > leave-wxsig-15067P@lists.tapr.org
> > > >
> > > > ____
> > > > Do You Yahoo!?
> > > > Yahoo! Greetings - send holiday greetings for
> > >
> > > Easter, Passover
> > >
> > > > > http://greetings.yahoo.com/
> > > >
> > > > ---
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> > > pkarp@conwaycorp.net
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> > >
> > > ---
> > > You are currently subscribed to wxsig as:
> > > w6amh@yahoo.com
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> > > leave-wxsig-15067P@lists.tapr.org
> >
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> > Do You Yahoo!?
> > Yahoo! Greetings - send holiday greetings for Easter, Passover
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> >
> > ---
> > You are currently subscribed to wxsig as: pkarp@conwaycorp.net
> > To unsubscribe send a blank email to
>
> leave-wxsig-15067P@lists.tapr.org

>
>
>
>
>
> ---
> You are currently subscribed to wxsig as: kb5uok@arrl.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>
>
> ---
> You are currently subscribed to wxsig as: kc5goi@tapr.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

--
Guy Story, KC5GOI
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

April 2002

Original source file: wxsig.0204
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0204

1. [wxsig] NOAA Environmental Hero Award to APRS person

From: "Russ Chadwick" <kb0tvj@peakpeak.com>
Date: Sat, 6 Apr 2002 04:37:58 +0100
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: <russ@wxqa.com>, <stanzepa@earthlink.net>
Message-ID: <LYR15067-72518-2002.04.05-23.11.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Each year NOAA (National Oceanic and Atmospheric Administration) gives a
number of Environmental Hero Awards to people who don't work for NOAA, but
have contributed a great deal to NOAA's ongoing job of providing
environmental services to the citizens of the United States. This year
NOAA's Oceanic and Atmospheric Research Office gave five of these awards and
one of them went to an amateur radio operator deeply involved in APRS.

On April 6, the office of David Evans, the Associate Administrator of NOAA
in charge of research sent out an e-mail with this statement,
.....

I am pleased to announce the NOAA Research winners of NOAA's Environmental
Hero Award. This award is for "real people" outside of NOAA who have
volunteered their time or who have worked closely with NOAA through their
respective organizations. Please join me in extending congratulations to
the winners.

Name: Dr. Steve Dimse
Organization/Location: Cudjoe Key, FL
Accomplishment: real-time citizen weather observations
NOAA Nominating Division: NOAA Research
.....

After that there were four other names or organizations with these
accomplishments:

Environmental awareness/safe and pollution free Hawaii

Development of GFDL hurricane forecast system

Assisted with CMDL Cooperative Global Air Sampling Network

Conservation of Great Lakes Fisheries

Each of these winners will receive a signed letter of appreciation from the
NOAA Administrator.

Steve Dimse has been instrumental in developing the network of citizen and
ham radio weather observers who send in their data to findu.com. Presently
there are about 570 registered stations and about 350 to 390 are
contributing data at any one time.

The contributed data are used for numerical weather prediction research at
NOAA's Forecast Systems Laboratory (FSL) and for training and research at
the National Center for Atmospheric Research (NCAR), both in Boulder, CO.
The data are sent to the National Center for Environmental Prediction (NCEP)
in Camp Springs, MD. In Florida, the data are used by NWS Weather Forecast
Offices for local area weather prediction. They are also used at Kennedy
Space Center (KSC) for weather prediction in support of launch operations.
The data are also used by the Long Island Railroad for weather monitoring
along their routes. This summer the data will be used for a major
temperature and air quality study in the New England area.

Congratulations to Steve for his award and thanks to all of you who go to
the trouble and expense of setting up a weather station and sending your
data to findu.com. All of your weather data are being put to good use.
What better way to do the type of citizen public service that President Bush
recently called for.

Russ Chadwick   KBØTVJ
Boulder, Colorado
www.wxqa.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Re: Barometric pressure

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Mon, 8 Apr 2002 10:47:09 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-72936-2002.04.08-10.19.15--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello Russ
Over the last several weeks I have implemented code to read the Bray
barometer on the t238 with help from Will.
I amnow at the point where I would like to implement code to show if the
pressure is steady, rising, or falling.
What would an appropiate time range be? e.g. changes over an hour, 10
minutes, etc...
Would like your advice/suggestions.
Byron

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Re: Barometric pressure

From: "clay b" <clay.bartholow@neicoltech.org>
Date: Mon, 8 Apr 2002 10:49:22 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-72940-2002.04.08-11.28.53--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Byron,

I'll throw this out FYI. I have included an excerpt below from the
Federal Meteorological Handbook No. 1, CHAPTER 11. Full text at:

http://205.156.54.206/oso/oso1/oso12/fmh1/fmh1ch11.htm#ch11link

I think 11.4.6 is the most relevant paragraph with respect to
rising/falling/steady pressure. I also included the rounding standard
in case you weren't aware of the "standard" method.

I presume that you are thinking about reporting this tendency via a
reporting screen on the T-238 for local consumption. I'm wondering if
it might not also be of interest to generate status text for
transmission via RF. Pressure tendency could be useful information when
watching for developing weather tendencies, frontal passage, etc.

Bravo Byron! I'm looking forward to this update!

Clay
W0LED

PRESSURE

11.4.6 Pressure Change (Rising/Falling). At designated stations, the
pressure calculated for each report shall be examined to determine if a
pressure change is occurring. If the pressure is rising or falling at a
rate of at least 0.06 inch per hour and the pressure change totals 0.02
inch or more at the time of the observation, a pressure change remark
shall be reported (see paragraph 12.7.1.u).

11.4.7 Pressure Tendency. Designated stations shall include pressure
tendency data in each 3- and 6-hourly report. The pressure tendency
includes two parts: the characteristic (an indication of how the
pressure has been changing over the past three hours) and the amount of
the pressure change in the past three hours. The characteristic shall be
based on the observed or recorded (barogram trace) changes in pressure
over the past three hours. The amount of pressure change is the absolute
value of the change in station pressure or altimeter setting in the past
three hours converted to tenths of hectopascals.

11.5 Pressure Reporting Standards

11.5.1 Rounding Pressure Values. When computations of pressure values require that a number be rounded to comply with standards on reportable values, the number shall be rounded down to the next reportable value. For example, an altimeter reading of 29.248 inches becomes 29.24 and a station pressure reading of 29.249 inches becomes 29.245.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] Re: Barometric pressure

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Mon, 8 Apr 2002 17:30:03 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-72966-2002.04.08-17.02.51--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks Clay
Have you had a chance to build your Bray boards?
Mine is up and running using the CalSemi software, and I have the LCD displays going, but have a problem loading Vad into my program. A couple of hrs trouble shooting aught to fix that.

Appreciate the information
Byron, W3WKR

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] findu.com backup status

From: Guy.Story@levi.flyingpig.net, KC5GOI <kc5goi@kc5goi.net>
Date: Mon, 8 Apr 2002 16:40:04 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-72969-2002.04.08-17.21.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Good evening everyone. I have updated the web page for the findu.com backup status. Sorry for the delay. Only the estimated amounts have increased at this time. I have handed the DCARC the checks after I made a list of who has mad donations. I will post a credits page in the next few days. I know I promised to have that up last week but life has gotten busy at home. Those of you who have requested the letters for the tax deduction, I will check on the status of those.

73

--
Guy Story, KC5GOI
Denton Texas
kc5goi@kc5goi.net

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] 2002 Digital BASH at Dayton Hamvention

From: "John R. Ackermann" <jra@febo.com>
Date: Tue, 09 Apr 2002 18:17:11 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-73129-2002.04.09-17.59.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Going to the Dayton Hamvention? Then plan to attend the annual Digital*BASH sponsored by TAPR and the Miami Valley FM Association to be held on Friday, May 17, 2002!

For reservations, please contact the TAPR office as described below.

```
----
What?
        An event for the digitally-inclined ham, featuring:
        *  Buffet dinner (Prime Rib, Chicken, and Pasta)
        *  Keynote Address (Speaker to be named)
        *  TAPR special interest group meetings
        *  "Birds of a Feather" gatherings

When?
        Friday evening, May 17, 2002
        Doors open at 7:00 pm; dinner served at 7:30 pm
        Speaker and meetings after dinner


Where?
        Kohler's Banquet Center, 4548 Presidential Way, Kettering
        (39 40.75N, 84 08.43W), about 6 miles SE of downtown Dayton --
        just off of East David Road.  Detailed directions and maps are available
        on the TAPR web site (http://www.tapr.org/tapr/html/Fdayton.maps.html)
        or at the TAPR booth.


How?
        Dinner requires advance registration and payment through TAPR.
        Tickets will be available at the TAPR booth on Friday, though
        we strongly encourage registration <before> Hamvention.  The cost
        is $25.00 per person, tax and tip included.

        All amateurs are welcome to attend, enjoy the speaker, and
        particpate in the meetings, although only those purchasing a dinner
        can eat.

        To register, contact:
        PACK*BASH
        c/o TAPR
        8987-309 E. Tanque Verde Road #337
        Tucson, AZ   85749-9399

        Phone: 972-671-TAPR (8277)
        Fax: 972-671-8716
        Internet: tapr@tapr.org

        Visa/Mastercard Accepted

Who?
        PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet Radio,
        the national leader in digital communication -- and the Miami
        Valley FM Association, Dayton's packet radio club.

For more information (including maps), go to
http://www.tapr.org/tapr/html/dayton.html#packetbash, or send email to
tapr@tapr.org.


---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
```

7. [wxsig] findu.com backup server thank you page

```
From: "Guy Story, KC5GOI" <kc5goi@kc5goi.net>
Date: Tue, 9 Apr 2002 17:27:33 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-73136-2002.04.09-18.10.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Hello everyone. I posted the credits page this eveing. I know the list is not 100% complete since I do not ahve the latest mailings in my hand yet. If there is a spelling error or a callsign is wrong, let me know and I will fix it right up.

73

```
--
Guy Story, KC5GOI
Denton Texas
kc5goi@kc5goi.net

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
```

To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] Bray barometer

From: Arnold Harding <kq6di@attbi.com>
Date: Tue, 09 Apr 2002 17:53:30 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-73148-2002.04.09-20.27.51--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Several of you have been building prototype barometers for use with the T-238.
Are there any part changes from those shown in the David Bray web pages?

Thanks, Arnold Harding
kq6di

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] Re: findu.com backup server thank you page

From: "Guy Story, KC5GOI" <kc5goi@kc5goi.net>
Date: Tue, 9 Apr 2002 21:11:08 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-73159-2002.04.09-21.42.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This is what I get for writing email at work. Sorry.
http://www.kc5goi.net/findu/indu_credit_list.htm.

73

Guy
----- Original Message -----
From: "Guy Story, KC5GOI" <kc5goi@kc5goi.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Tuesday, April 09, 2002 5:27 PM
Subject: [wxsig] findu.com backup server thank you page

> Hello everyone. I posted the credits page this eveing. I know the list
is
> not 100% complete since I do not ahve the latest mailings in my hand yet.
If
> there is a spelling error or a callsign is wrong, let me know and I will
fix
> it right up.
>
> 73
>
> --
> Guy Story, KC5GOI
> Denton Texas
> kc5goi@kc5goi.net
>
> ---
> You are currently subscribed to wxsig as: kc5goi@tapr.org
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] Re: [aprsplus] findu.com backup server thank you page

From: "Guy Story, KC5GOI" <kc5goi@infospeedway.net>
Date: Tue, 9 Apr 2002 21:11:17 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-73161-2002.04.09-21.42.40--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This is what I get for writing email at work. Sorry.
http://www.kc5goi.net/findu/indu_credit_list.htm.

73

Guy
----- Original Message -----
From: "Guy Story, KC5GOI" <kc5goi@kc5goi.net>
To: "APRS+" <aprsplus@k8sn.org>; "APRS SIG" <aprssig@lists.tapr.org>;
"HamHud" <hamhud@yahoogroups.com>; "UI-View" <ui-view@yahoogroups.com>; "WX
Sig" <wxsig@lists.tapr.org>; "Xastir" <xastir@krypton.hscs.virginia.edu>
Sent: Tuesday, April 09, 2002 5:27 PM
Subject: [aprsplus] findu.com backup server thank you page

> Hello everyone. I posted the credits page this eveing. I know the list
is
> not 100% complete since I do not ahve the latest mailings in my hand yet.
If
> there is a spelling error or a callsign is wrong, let me know and I will
fix
> it right up.
>
> 73
>
> --
> Guy Story, KC5GOI
> Denton Texas
> kc5goi@kc5goi.net
>
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] Re: Bray barometer

From: Bill Ellis <rwsw60@email.sps.mot.com>
Date: Wed, 10 Apr 2002 06:41:40 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-73204-2002.04.10-07.18.42--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Could someone please post information or URL for this barometeric device
/ circuit so others can tinker?

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] Re: Bray barometer

From: Arnold Harding <kq6di@attbi.com>
Date: Wed, 10 Apr 2002 06:45:04 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-73214-2002.04.10-09.19.36--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill Ellis wrote:
>
> Could someone please post information or URL for this barometeric device
> / circuit so others can tinker?

http://davidbray.org/onewire/barometer.html

FAR Circuits has the PC board available.
http://www.farcircuits.net/misc1.htm

Please remember, Will does not yet support this circuit, and has the right to
decide to support something completely different. (I'm building one for fun
anyway...) Builder beware!

Arnold Harding
kq6di

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

13. [wxsig] url error

From: "Guy Story, KC5GOI" <kc5goi@kc5goi.net>
Date: Wed, 10 Apr 2002 08:39:35 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-73215-2002.04.10-09.21.56--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

It has been brougt to my attention that the url I sent was missing the f in findu_credit_list.htm. That is what I get for sending email from work. I created a duplicate page with out the f. I have not added links on the two other paged just yet but it is on the list of things to do. All 4 urls are listed below. The list does not include what the TAPR office has. They are planning the trip to Dayton for Hanvention and I will get them from the office manager then. Sorry for the error. Been trying to rebuild a clients pc that crashed on saturday. It helps if they bring all, and I mean all, the software and driver disks the first time.

http://www.kc5goi.net/findu

http://www.kc5goi.net/findu/status.html

http://www.kc5goi.net/findu/findu_credit_list.htm

http://www.kc5goi.net/findu/indu_credit_list.htm

73

--
Guy Story, KC5GOI
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] Re: Barometric pressure

From: "Russ Chadwick" <kb0tvj@peakpeak.com>
Date: Wed, 10 Apr 2002 13:58:22 +0100
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-73217-2002.04.10-09.32.09--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Byron,

Sorry for the late reply, but I have been having computer and internet problems. The important thing to report is the barometer tendency, rising, steady, falling. Clay's posting gives the link to the Federal Meteorological Handbook where this is explained further.

A very important thing is to what extent the indicated pressure change is determined by the temperture change of the measuring equipment, i.e. temperature sensitivity of the instrument. I would suggest this experiment. Wait until you are in a stable high pressure situation so that there should be not change of the indicated pressure. Then rapidly heat the measuring device and then let it cool back to ambient and see what the indicated pressure does. Then determine the amount of pressure change per unit temperature change. Ideally, it will be zero, but this is the real world. Given this number and the temperature range you expect for your installation, you can get an idea of how often the pressure change will be in error. Since generally, the temperature changes are smaller inside your house, it's better to have the measuring device inside the house. Normally, for the purposes that we are talking about here the pressure inside your house is the same as the outside pressure.

If you do this test, I'd appreciate hearing what you found.

Russ Chadwick KBØTVJ
Boulder, Colorado
www.wxqa.com

----- Original Message -----
From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Monday, April 08, 2002 3:47 PM
Subject: [wxsig] Re: Barometric pressure

> Hello Russ
> Over the last several weeks I have implemented code to read the Bray

> barometer on the t238 with help from Will.
> I amnow at the point where I would like to implement code to show if the
> pressure is steady, rising, or falling.
> What would an appropiate time range be? e.g. changes over an hour, 10
> minutes, etc...
> Would like your advice/suggestions.
> Byron
>
>
> ---
> You are currently subscribed to wxsig as: kb0tvj@peakpeak.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] Re: Bray barometer

From: "Russ Chadwick" <kb0tvj@peakpeak.com>
Date: Wed, 10 Apr 2002 14:05:16 +0100
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-73218-2002.04.10-09.38.55--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill,

The Bray barometer is sometimes called the Bray/Jennings barometer. Jim
Jennings is a ham and his e-mail is

w5eut@earthlink.net

Jim runs a weather station in western Colorado and contributes data to
APRSWXNET. You can see his location and web page at

www.wxqa.com

Click on Colorado and look for w5eut. He will be happy to provide you lots
of information.

Russ Chadwick   KBØTVJ
Boulder, Colorado
www.wxqa.com

----- Original Message -----
From: "Bill Ellis" <rwsw60@email.sps.mot.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Wednesday, April 10, 2002 12:41 PM
Subject: [wxsig] Re: Bray barometer

> Could someone please post information or URL for this barometeric device
> / circuit so others can tinker?
>
> ---
> You are currently subscribed to wxsig as: kb0tvj@peakpeak.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] findu.com backup status

From: "Guy Story, KC5GOI" <kc5goi@kc5goi.net>
Date: Wed, 17 Apr 2002 23:25:19 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-74856-2002.04.18-00.07.52--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello everyone. A long awaited update has occured on the credit list page and
the status page. A nice suprise waits everyone. If you are planning to send
in a donation, please do so before April 30th. After all checks clear, we
will be ordering the server from Dell. Due to the amounts we have onhand and
the outstanding pledged or in the mail amounts, Several "upgrades" will
occur. Make no mistake, the onsite, next day warranty will be purchased
.When we place the order for the server, I will post on the status page its

hardware. I am reluctant to issue any sort of time table at this time since
I do not know when all the checks will clear and how long it will take Dell
to build the server. I am going to wait one week after April 30th for any
delayed mail to arrive. Most of you should start to see checks clearing by
April 27th. The DCARC treasurer is processing all the checks DCARC has
recieved this week. When I get a copy of his list, I will post the offical
ammounts. Please look over the credit page for any typos, missing calls or
incorrect info.

http://www.kc5goi.net/findu/index.html
http://www.kc5goi.net/findu/status.html
http://www.kc5goi.net/findu/findu_credit_list.htm

73

--
Guy Story, KC5GOI
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

17. [wxsig] Failure of AAG wind direction

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sun, 21 Apr 2002 20:47:25 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-75639-2002.04.21-20.22.28--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Friends
Since implementing the T238 on my AAG wx station I have had intermittent
failures to read the wind direction. Failure rate was in the 75% rate.
Running the Deli software gave no indication of failure.
Today I increased R11 to 2.2k and got solid failures, not only on the WD,
but also on readings of the temp sensor and wind speed. figured I had gone
the wrong way, so went the other way and installed a 1.2k for R11. Now have
solid failures on the wind direction with no erors generated for wind speed
or temp.

I am having similar results reading a DS2438 (was interm., now solid
failure.) Works fine on Dalisem. software.

Any suggestions?
Byron, w3wkr

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

18. [wxsig] Digital BASH Update

From: John Ackermann   N8UR <jra@febo.com>
Date: Wed, 24 Apr 2002 11:21:33 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-76164-2002.04.24-11.02.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

We're very happy to announce that Bdale Garbe, KB0G, will be the keynote
speaker at the TAPR/MVFMA Digital BASH on Friday evening at Hamvention.

Bdale is one of the long-time "good guys" in the digital radio and amateur
satellite worlds. He was in the middle of the early work on KA9Q's "NET"
and "NOS" programs, pioneered megabit-rate packet radio, and in the
satellite world was heavily involved in the RUDAK and AO-40 GPS
experiments. Back in the Old Days, he was a board member and Vice
President of TAPR, and remains one of TAPR's best friends. On a different
front, Bdale was just elected as Debian Project Leader, so he now oversees
one of the major Linux distributions -- and the one that is by far the most
ham-friendly. Bdale works in the Linux development group at HP, and in his
spare (?) time does VHF/UHF/microwave contesting and roaming.

Bdale's talk will blend all of these interests into an entertaining and
informative presentation titled "From Bits in the Basement to Debian -- and
Back Again".

You can find more information about the Digital BASH and TAPR's other

Hamvention activities at http://www.tapr.org/tapr/dayton/.

See you there!

73,
John

John Ackermann N8UR jra@febo.com http://www.febo.com
President, TAPR n8ur@tapr.org http://www.tapr.org

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

19. [wxsig] findu.com backup status

From: "Guy Story, KC5GOI" <kc5goi@kc5goi.net>
Date: Fri, 26 Apr 2002 09:04:46 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: "APRS+" <APRSPLUS@k8sn.org>, ham hud <hamhud@yahoogroups.com>,
javaAPRS <javaprs@yahoogroups.com>, WX SIG <wxsig@lists.tapr.org>,
xastir <Xastir@krypton.hscs.virginia.edu>
Message-ID: <LYR15067-76654-2002.04.26-09.47.54--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Just sending an update. I have recieved the latest mail from the DCARC
president. I have roughly a dozen more names to add and will update the
amounts this weekend. Tuesday is the cutoff date. The plan is to contact
Dell on May 6th to see what we can arrange using the DCARC 501c3 status. The
DCARC will also send out the letters for the donations that requested it for
tax deduction purposes in May. Most of the cheks should have cleared by now.
If you made a donation in mid March, those are the ones we will be processing
this weekend. If you made a donation before the middle of March and it has
not cleared yet. Please contact me of the lists and we will see what the
status is.

73

--
Guy Story, KC5GOI
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

20. [wxsig] RE: Failure of AAG wind direction

From: "William Beals" <will@beals5.com>
Date: Sat, 27 Apr 2002 21:38:53 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-76877-2002.04.27-23.23.31--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Byron:

Sorry for taking so long to respond. I have been off on two back-back
business trips and am still not home yet. I will need to get some
schematics when I get home and offer some suggestions by early next week.
I'll start by asking nice obvious stuff that helps get me going though.

1) Bus voltage?
2) If low, can you change it by unplugging all/some of the sensors.
3) How long are your cables, what type?
4) What software revision?

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Byron D.
Lichtenwalner
Sent: Sunday, April 21, 2002 6:47 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Failure of AAG wind direction

Friends
Since implementing the T238 on my AAG wx station I have had intermittent
failures to read the wind direction. Failure rate was in the 75% rate.
Running the Deli software gave no indication of failure.
Today I increased R11 to 2.2k and got solid failures, not only on the WD,
but also on readings of the temp sensor and wind speed. figured I had gone
the wrong way, so went the other way and installed a 1.2k for R11. Now have
solid failures on the wind direction with no erors generated for wind speed
or temp.

I am having similar results reading a DS2438 (was interm., now solid
failure.) Works fine on Dalisem. software.

Any suggestions?
Byron, w3wkr

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

21. [wxsig] RE: Failure of AAG wind direction

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sun, 28 Apr 2002 11:24:40 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-76934-2002.04.28-10.58.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Will
Russ told me you were on the road again. Hope you had a successful trip.

Here is the information I have gathered so far.:
Buss voltage is 5.02 volts. Software level is 13.1 On the buss the wind
speed and temp. work with our error. The clock, attached locally, works
with error. baro. connected locally(on board connector for expansion) works
intermittently as does wind direction. they do not always fail at the same
time.

Tried 1.2, and 2.2k resistors in place of the 1.5k for r11. Error rate got
worse. Wind direction error rate unaffected by plugging in or removing
barometer.

Wind direction and barometer both work "NORMALLY" WHEN CONNECTED TO COMPUTER
USING DALSEMI SOFTWARE.

Software is 13.1 with changes needed for baro. Baro. reads correctly in
InHg. Have not verified Millabar, since intermittent developed.

Baro. failure rete remains the same with or without AAG stuff connected.
Wind direction error rate remains the same with or without Baro. Baro. and
wind direction do not always fail on same 5 second read cycle. Some times
they do, some times they don't.

Suspect timing might be a problem. Your thoughts?
Byron, W3WKR

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

22. [wxsig] AAG failure

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sun, 28 Apr 2002 11:27:57 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-76935-2002.04.28-11.01.07--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will
Forgot one thing. Network is 100 ft. 4 wire tele cable. 5 volt pin disconnected because of short in
AAG wx head.
Byron

23. [wxsig] AAG fail.

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sun, 28 Apr 2002 11:29:19 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-76936-2002.04.28-11.02.36--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will
Forgot one thing. Ntwork is 100 ft of 4 wire tele cable.
Byron, W3WKR

May 2002

Original source file: wxsig.0205
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0205

1. [wxsig] Spring _Packet_Status_Register_ Available Online

From: "John R. Ackermann" <jra@febo.com>
Date: Thu, 02 May 2002 20:26:04 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-77566-2002.05.02-20.10.51--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

As the subject says... the new issue of TAPR's journal, the
_Packet_Status_Register_, is now available online. You can go to
http://www.tapr.org/tapr/html/Fpsr.html, or obtain it via ftp from
ftp://ftp.tapr.org/psr/Spring_83_2002.pdf. You'll need Adobe Acrobat or
other PDF file reader to view the document.

Stan Horzepa, WA1LOU, has taken the reins as the PSR's editor, and I'd like
to thank him for his great work on this issue. Please send comments,
suggestions, or -- best of all -- articles to Stan at psr@tapr.org.

73,
John N8UR

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] are ther problems

From: "Emile" <emilezw@wolmail.nl>
Date: Sat, 11 May 2002 23:01:30 +0200
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-78711-2002.05.11-16.34.56--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have not received any message for a more then one week.

Are there problems.

Emile

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Going LOS

From: "William Beals" <will@beals5.com>
Date: Sun, 12 May 2002 08:51:57 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-78776-2002.05.12-10.27.32--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Folks:

I'm not into broadcast messages much, but...

I am about to go off on a series of business trips lasting until the second
week in June. Half of this trip is not in the US, so internet access may be
spotty. As such, if you have a question about the T238 and I don't answer
right away, it is because I'm isolated from my normal lines of
communication.

will

==
This message sent using 100% recycled electrons.
(Minimum 30% post-consumer content)
==
Will Beals (mobile)
15014 East Idaho Place
Aurora, CO 80012
303-755-0293
will@beals5.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] RE: are there problems

From: "William Beals" <will@beals5.com>
Date: Sun, 12 May 2002 08:43:47 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-78775-2002.05.12-10.27.25--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Emile:

Reflector is up, just not much going on for a few days.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Emile
Sent: Saturday, May 11, 2002 3:02 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] are ther problems

I have not received any message for a more then one week.

Are there problems.

Emile

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] findu backup status

From: "Guy Story, KC5GOI" <kc5goi@kc5goi.net>
Date: Wed, 15 May 2002 09:02:14 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-79184-2002.05.15-09.37.27--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This is the first post in three weeks on the status of the backup for
Findu.com. I have been letting things settle down while the last of the
donations have come in. I will update the site monday after Dayton.
Currently there is 4200 in the account for the server and another 1200 with
TAPR. The plan for this week is to place the order with Dell next week.
When the order is placed I will post the specifications to the web page as
well as email the list servers. Great job everyone. This project is a
testament that we can and do work together.

73

--
Guy Story, KC5GOI
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] Rainfall issues - T238

From: "Kevin Brown" <kbrown@powerhouseproductions.com>
Date: Mon, 20 May 2002 21:49:35 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-80098-2002.05.20-22.25.34--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I just happened to notice over the past couple of weeks, with our more
than necessary rainfall amounts that my T238 is NOT resetting the daily

total at anytime during a 24 hour period. I would expect it to happen
somewhere around 00:00Z, but it appears to continue to increment
rainfall beyond any 24 hour period.

As I look at it right now, it's showing 6.23 inches of rainfall. It
hasn't rained here in several days.

I am running 1.12.ØR I don't see any abnormal error counts, the
date/time setup is correct. My weather station is the Dallas 1-wire,
with the additional rain guage.

Any ideas?

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] RE: Rainfall issues - T238

From: "William Beals" <will@beals5.com>
Date: Wed, 22 May 2002 00:05:23 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-80342-2002.05.22-01.53.39--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Kevin:

I've been looking at that part of the code a fair amount and have not seen
this. I can easily emulate it when I get back to the US (temporarily on
travel for several weeks).

I have a screen with several rainfall amounts (past hour, day, month,
since-user-reset). Note that I reset the daily rainfall at midnight LOCAL
time, not Zulu, so if your still see rain from yesterday, could your local
time be off? If you are still seeing rain from several days ago, that isn't
a good explanation though.

Finally, one problem I experience with a less than rigid mount is if I get a
decent amount of wind, I do get phantom rain counts in heavy winds. For me
at least, these are small enough (usually 1 r 2 counts in heavy winds) that
I have not bothered rebuilding the mount yet.

Hope this helps.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Kevin Brown
Sent: Monday, May 20, 2002 8:50 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Rainfall issues - T238

I just happened to notice over the past couple of weeks, with our more
than necessary rainfall amounts that my T238 is NOT resetting the daily
total at anytime during a 24 hour period. I would expect it to happen
somewhere around 00:00Z, but it appears to continue to increment
rainfall beyond any 24 hour period.

As I look at it right now, it's showing 6.23 inches of rainfall. It
hasn't rained here in several days.

I am running 1.12.ØR I don't see any abnormal error counts, the
date/time setup is correct. My weather station is the Dallas 1-wire,
with the additional rain guage.

Any ideas?

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org

To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] Barometer for T 238

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Fri, 24 May 2002 19:22:34 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-80981-2002.05.24-18.56.54--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello Gang.
Recently I finished "expanding" Will's code to support the Bray barometer design(more later).
The Current Data screen was expanded to include Bp in the last line. Also, there is a 6th screen that shows Bp, and indicates if the pressure has risen or fallen or is steady over the last hour.
I would be happy to send you a copy of the assembled code (S19 format) for loading.l

Now a bit about the Barometer. It is a circuit designed by Bray, and published by Jim Jennings (w5eut@earthlink.net). This is an excellent page on the design, parts required, calibrtion, etc. There is also a smaller, newer layout of the board that has some improvements on power management that anyone anticipating building one should check our. Also on Jims board.

I have had mine running about 4 weeks now. When compared to the two most local NWS, I have an average deviation of.006 InHg to one and 0.007 to the other. (Don't think I can set the calibration pot closer than that!)

While I had planned to do the release of code with Will, time is of the essance if you would like to place an order for the new circuit board for a multiply buy. Information is available on weather@dalisemi.com. There has been a lot of interest there, and I can personally vouch for the stability of the design.

Byron, W3WKR

9. [wxsig] Firmware for BP

From: "Clay Bartholow" <w0led@arrl.net>
Date: Sat, 25 May 2002 6:18:17
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-81078-2002.05.25-06.54.02--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Byron,

I would like to get the code unassembled, in module form, so that 1) I
can inspect the code and 2) I can incorporate into it the typical hand
changes I make for my setup whenever I assemble a new version of Will's
code.

Thanks,

Clay
W0LED

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] Re: Firmware for BP

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sat, 25 May 2002 07:30:56 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-81080-2002.05.25-07.05.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Clay
Did you get your baro. working?
Give me your e-mail, and I will send the unassembled stuff.
I'll send all the modules that changed. They have a "b" suffix.(wx08.asm
becomes wx08b.asm).
Byron
----- Original Message -----
From: Clay Bartholow <w0led@arrl.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Saturday, May 25, 2002 6:18 AM
Subject: [wxsig] Firmware for BP

> Hi Byron,
>
> I would like to get the code unassembled, in module form, so that 1) I
> can inspect the code and 2) I can incorporate into it the typical hand

> changes I make for my setup whenever I assemble a new version of Will's
> code.
>
> Thanks,
>
> Clay
> W0LED
>
> ---
> You are currently subscribed to wxsig as: w3wkr@ptd.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] Re: Barometer for T 238

From: Richard Mulvey <rich@mulveyfamily.com>
Date: 26 May 2002 22:50:22 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-81394-2002.05.26-22.26.02--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Fri, 2002-05-24 at 19:22, Byron D. Lichtenwalner wrote:
> Hello Gang.
> Recently I finished "expanding" Will's code to support the Bray barometer design(more later).
> The Current Data screen was expanded to include Bp in the last line. Also, there is a 6th screen that
shows Bp, and indicates if the pressure has risen or fallen or is steady over the last hour.
> I would be happy to send you a copy of the assembled code (S19 format) for loading.l
>
> Now a bit about the Barometer. It is a circuit designed by Bray, and published by Jim Jennings
(w5eut@earthlink.net). This is an excellent page on the design, parts required, calibrtion, etc. There
is also a smaller, newer layout of the board that has some improvements on power management that anyone
anticipating building one should check our. Also on Jims board.
>
> I have had mine running about 4 weeks now. When compared to the two most local NWS, I have an average
deviation of.006 InHg to one and 0.007 to the other. (Don't think I can set the calibration pot closer
than that!)
>
> While I had planned to do the release of code with Will, time is of the essance if you would like to
place an order for the new circuit board for a multiply buy. Information is available on
weather@dalisemi.com. There has been a lot of interest there, and I can personally vouch for the
stability of the design.
>
> Byron, W3WKR

Hi Byron:

I'd love to get a copy of the code.

Can I assume that I can remove the barometer sensor without a problem,
if necessary?

Thanks!

- Rich

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

June 2002

Original source file: wxsig.0206
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0206

1. [wxsig] Problem defined/fixed

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Thu, 13 Jun 2002 12:05:09 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-84773-2002.06.13-11.43.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello all
For several months I have been reporting wind direction errors, and Barometer errors when the AAG version 3 Wx head was installed. I am pleased to report the problem is solved.

First, I isolated the wx head, and found the voltage low on the bus. Aitor at AAG helped me thru some diagonostics, and isolated a bad on board capacitor. He promptly sent a replacement board.

Installing the new board alllowed the T238 to operate perfectly, but when the barometer and humidity sensor were added, ramdon errors again started to appear.

You may recall, I was running my barometer from the aux. port on the t-238 board. This put the outpot of the barometer in parallel with the 1 wire port to the outside sensors., forming a mini-star configeration.

I removed this configeration, and placed all the sensors in daisy chain fashion on the net. NO MORE ERRORS! Seems Dallis Semi recommendations have merit.(Don't do STARS).

There is also a new release of the Barometer software surporting the Bray/Jennings Barometer. It adds indoor temp from the barometer sensor, and shows a 6th display screen with B.P. and indicates if pressure increased/decreased in the last hour.
Byron

2. [wxsig] Commercial weather station programs for APRS

From: "Russ Chadwick" <kb0tvj@peakpeak.com>
Date: Fri, 14 Jun 2002 03:44:45 -0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-84868-2002.06.13-23.21.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

There are now two commercial weather station programs that can be used to send weather station data from a wide variety of home weather stations to findu.com. From there the weather data can be sent to NOAA.

This capability is now available for Virtual Weather Station (VWS) with a program called VWSaprs that is used with VWS. VWSaprs was written by Tim West of the UK. You can download it here,

http://dl.weatherconnect.com/VWS%20Downloads/VWSaprs.zip

The other commercial weather station program with this capability built in is Weather-Display written by Brian Hamilton of New Zealand. This program can be obtainded here,

http://www.weather-display.com

Russ Chadwick KBØTVJ
Boulder, Colorado
www.wxqa.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Barometer & Display

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Mon, 17 Jun 2002 23:09:38 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-85521-2002.06.17-23.48.52--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello fellow sig members. Just re-subscribed after a 6 month hiatus and was hoping to get caught up with current happenings and ask some questions.

Has there been any movement on a BP sensor? I know that the Dallas Weather
sig had been actively working on a model but didn't know if they came up
with something that could be used for the T-238. Is this something that
Tecnologia Aplicada (AAG) will eventually sell?

Does the T-238 support the DS1616 Humidy/Temperature I-Button?

I need a replacement backlit display for my T238. Any ideas where I can
pick this up relatively inexpensively?

Thanks,

Rich Beckwith - Wn0x

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] Re: Barometer & Display

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Tue, 18 Jun 2002 07:23:39 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-85586-2002.06.18-06.59.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Rich
Over the last several months I have written code to support the
Bray/Jennings barometer. That is the one the DalSemi group have adapted as
their "standard"' and are in the process of making boards and kitting.

The code I have written changes the "Current" screen to show the Bp in the
last line. there is also a 6th display screen that shows the Bp, temp from
the Barometer chip(nice if Baro. is inside), and a message indicating if the
pressure is rising, falling, or steady.

All the code is based on the fine work Will did in modularizing his code,
and documenting it we..

Will and I have not yet worked out a way to release it so there is only one
set of code, but if you want it, I will be happy to send you a copy.

Sorry, can't help on the replacement screen.
Byron

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] Re: Barometer & Display

From: Alan Heaberlin <w6amh@yahoo.com>
Date: Tue, 18 Jun 2002 11:56:43 -0700 (PDT)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: wn0x@earthlink.net
Message-ID: <LYR15067-85629-2002.06.18-14.33.53--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich,
The best place I know of for LCD screens is:
http://www.crystalfontz.com/
I think Will et.al. have come up with support for the
barometer. As one of the organizers of the Dallas SIG
effort to get BP on the 1-Wire system, I'll tell you
it is the Bray Jennings Version 3 BP sensor we are
building. It uses 10V and kits are available for $50.
Don't hold your breath on AAG doing BP anytime soon
and Maxim-Dallas probably will never do it. We are
flooding the market with BP sensors by virtue of our
project and at much, much less cost than Texas Weather
offers.
If you want to get in on the group buy send me an
email to amh@qnet.com with your contact information.
Alan Heaberlin
W6AMH
--- Rich Beckwith <wn0x@earthlink.net> wrote:
> Hello fellow sig members. Just re-subscribed after
> a 6 month hiatus and was

> hoping to get caught up with current happenings and
> ask some questions.
>
> Has there been any movement on a BP sensor? I know
> that the Dallas Weather
> sig had been actively working on a model but didn't
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> Tecnologia Aplicada (AAG) will eventually sell?
>
> Does the T-238 support the DS1616 Humidy/Temperature
> I-Button?
>
> I need a replacement backlit display for my T238.
> Any ideas where I can
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>
> Thanks,
>
> Rich Beckwith - Wn0x
>
>
> ---
> You are currently subscribed to wxsig as:
> w6amh@yahoo.com
> To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
>

_____
Do You Yahoo!?
Yahoo! - Official partner of 2002 FIFA World Cup
http://fifaworldcup.yahoo.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] Re: Barometer & Display

From: "William Beals" <will@beals5.com>
Date: Tue, 18 Jun 2002 21:38:52 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-85686-2002.06.18-23.11.17--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

Russ ordered some of the Bray Jennings BP sensors, so I'll be throwing in
support for those soon. In terms of software updates, they have slowed down
considerably lately. Naturally, you can see all the release versions and
release notes back to 1.0.0 on the website (http://www.beals5.com/wx).

With any luck, I'll be able to incorporate Byron's software into the public
releases and things should work OK.

For temperature/humidity, I support the Dallas reference design based on the
DS2428 of which there are a few versions, some with and without ambient
light sensors. I don't mess with the ambient light sensor.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Alan Heaberlin
Sent: Tuesday, June 18, 2002 12:57 PM
To: TAPR WX Special Interest Group
Cc: wn0x@earthlink.net
Subject: [wxsig] Re: Barometer & Display

Rich,
The best place I know of for LCD screens is:
http://www.crystalfontz.com/
I think Will et.al. have come up with support for the
barometer. As one of the organizers of the Dallas SIG
effort to get BP on the 1-Wire system, I'll tell you
it is the Bray Jennings Version 3 BP sensor we are

building. It uses 10V and kits are available for $50.
Don't hold your breath on AAG doing BP anytime soon
and Maxim-Dallas probably will never do it. We are
flooding the market with BP sensors by virtue of our
project and at much, much less cost than Texas Weather
offers.
If you want to get in on the group buy send me an
email to amh@qnet.com with your contact information.
Alan Heaberlin
W6AMH

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] Re: Barometer & Display

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Wed, 19 Jun 2002 08:12:32 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-85740-2002.06.19-08.51.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

BTW Will, The latest version with the extra menus for setting up devices is
great. Much easier to add or change devices if you are experimenting.
Thanks for your efforts.

Rich - Wn0x

----- Original Message -----
From: "William Beals" <will@beals5.com>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Tuesday, June 18, 2002 10:38 PM
Subject: [wxsig] Re: Barometer & Display

> Rich:
>
> Russ ordered some of the Bray Jennings BP sensors, so I'll be throwing in
> support for those soon. In terms of software updates, they have slowed
down
> considerably lately. Naturally, you can see all the release versions and
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>
> With any luck, I'll be able to incorporate Byron's software into the
public
> releases and things should work OK.
>
> For temperature/humidity, I support the Dallas reference design based on
the
> DS2428 of which there are a few versions, some with and without ambient
> light sensors. I don't mess with the ambient light sensor.
>
> will
>
> -----Original Message-----
> From: bounce-wxsig-21132@lists.tapr.org
> [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Alan Heaberlin
> Sent: Tuesday, June 18, 2002 12:57 PM
> To: TAPR WX Special Interest Group
> Cc: wn0x@earthlink.net
> Subject: [wxsig] Re: Barometer & Display
>
>
> Rich,
> The best place I know of for LCD screens is:
> http://www.crystalfontz.com/
> I think Will et.al. have come up with support for the
> barometer. As one of the organizers of the Dallas SIG
> effort to get BP on the 1-Wire system, I'll tell you
> it is the Bray Jennings Version 3 BP sensor we are
> building. It uses 10V and kits are available for $50.
> Don't hold your breath on AAG doing BP anytime soon
> and Maxim-Dallas probably will never do it. We are
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> project and at much, much less cost than Texas Weather
> offers.
> If you want to get in on the group buy send me an

> email to amh@qnet.com with your contact information.
> Alan Heaberlin
> W6AMH
>
>
> ---
> You are currently subscribed to wxsig as: wn0x@earthlink.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] t-238 and TM-D700A

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Thu, 20 Jun 2002 16:32:29 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-85935-2002.06.20-16.08.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello gang
Has anyone used a Kenwood 700 with th T-238?

I tried using APRS mode, but can't seem to get the data stream to trigger the transmit.

Do I need to use the GPS input?

Byron

9. [wxsig] Re: t-238 and TM-D700A

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Thu, 20 Jun 2002 16:30:18 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-85951-2002.06.20-17.20.29--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

If you are able to connect with a pc and type "K" to go into console mode you should be fine. You might
 try going into console mode first then hooking up the T238 to see what happens.
  ----- Original Message -----
  From: Byron D. Lichtenwalner
  To: TAPR WX Special Interest Group
  Sent: Thursday, June 20, 2002 3:32 PM
  Subject: [wxsig] t-238 and TM-D700A

  Hello gang
  Has anyone used a Kenwood 700 with th T-238?

  I tried using APRS mode, but can't seem to get the data stream to trigger the transmit.

  Do I need to use the GPS input?

  Byron

10. [wxsig] Re: t-238 and TM-D700A

From: "William Beals" <will@beals5.com>
Date: Thu, 20 Jun 2002 19:10:17 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-85987-2002.06.20-21.16.40--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich and Byron:

I tried when I first had the T238 running and was not successful. At the
time it was not a priority, so I dropped it. If you do have a known method
of getting the T238 and the THD-7A to work, I'd gladly add the code to
support it.

will
  -----Original Message-----
  From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Rich Beckwith
  Sent: Thursday, June 20, 2002 3:30 PM
  To: TAPR WX Special Interest Group
  Subject: [wxsig] Re: t-238 and TM-D700A

If you are able to connect with a pc and type "K" to go into console mode you should be fine. You might try going into console mode first then hooking up the T238 to see what happens.

----- Original Message -----
From: Byron D. Lichtenwalner
To: TAPR WX Special Interest Group
Sent: Thursday, June 20, 2002 3:32 PM
Subject: [wxsig] t-238 and TM-D700A

Hello gang
Has anyone used a Kenwood 700 with th T-238?

I tried using APRS mode, but can't seem to get the data stream to trigger the transmit.

Do I need to use the GPS input?

Byron

11. [wxsig] Re: t-238 and TM-D700A

From: "Byron Lichtenwalner" <w3wkr@ptd.net>
Date: Thu, 20 Jun 2002 23:11:52 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-85999-2002.06.20-22.47.56--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Will
Looks to me like it needs a few uarm messages to get the APRS header in line. Perhaps a fixed message, with picking up the position data and inserting a call would do it.

My Kenwood version is the 700. I was trying to get the regular tnc setting to run, but alas it seems to need some work! (Doesn't it always?)
Rrich, thanks for the advice, but havn't been able to get it transmitting with a symbol, or location that is in the normal ARPS header.
Byron

----- Original Message -----
From: William Beals
To: TAPR WX Special Interest Group
Sent: Thursday, June 20, 2002 9:10 PM
Subject: [wxsig] Re: t-238 and TM-D700A

Rich and Byron:

I tried when I first had the T238 running and was not successful. At the time it was not a priority, so I dropped it. If you do have a known method of getting the T238 and the THD-7A to work, I'd gladly add the code to support it.

will
-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Rich Beckwith
Sent: Thursday, June 20, 2002 3:30 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: t-238 and TM-D700A

If you are able to connect with a pc and type "K" to go into console mode you should be fine. You might try going into console mode first then hooking up the T238 to see what happens.

----- Original Message -----
From: Byron D. Lichtenwalner
To: TAPR WX Special Interest Group
Sent: Thursday, June 20, 2002 3:32 PM
Subject: [wxsig] t-238 and TM-D700A

Hello gang
Has anyone used a Kenwood 700 with th T-238?

I tried using APRS mode, but can't seem to get the data stream to trigger the transmit.

Do I need to use the GPS input?

Byron

12. [wxsig] Re: t-238 and TM-D700A

From: "Byron Lichtenwalner" <w3wkr@ptd.net>
Date: Thu, 20 Jun 2002 23:14:08 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-86000-2002.06.20-22.50.10--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich, do you know if Kenwood forces you to have the non-data lines tied up to accept data? Most TNCs have built in pull up resistors so only the data receive line and ground are needed to push data in.
Byron

13. [wxsig] Re: t-238 and TM-D700A

From: "Byron Lichtenwalner" <w3wkr@ptd.net>
Date: Sat, 22 Jun 2002 10:22:19 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-86217-2002.06.22-09.58.17--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will
Tht would be great if you could write the code to use the TM-D700. The Kenwood manual on the bugger is large, but doesn't have any details on how things work. Seems a shame to have all the nice APRS built in support, but not being able to include data like Wx or RDF. So guess have to simulate it using the TNC mode!

Has anyone used a regular TNC for WX application that doesn't have built in APRS support, or without a computer to broadcast T-238 output in APRS format?
Byron

PS How do you suggest we 'publish' the Barometer code. I have sent three copies to individuals that requested it.
Byron
----- Original Message -----
From: William Beals
To: TAPR WX Special Interest Group
Sent: Thursday, June 20, 2002 9:10 PM
Subject: [wxsig] Re: t-238 and TM-D700A

Rich and Byron:

I tried when I first had the T238 running and was not successful. At the time it was not a priority, so I dropped it. If you do have a known method of getting the T238 and the THD-7A to work, I'd gladly add the code to support it.

will

14. [wxsig] A network with legs.

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Thu, 27 Jun 2002 16:29:49 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-86970-2002.06.27-17.09.02--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am trying to add a temperature/humidity pagoda to my network. Is there a trick to having two legs on the 1-wire network? I seem to remember some suggestions from long ago about resistors used to isolate the legs or something.

Tnx,

Rich

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] Re: A network with legs.

From: Alan Heaberlin <w6amh@yahoo.com>
Date: Thu, 27 Jun 2002 16:00:06 -0700 (PDT)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-86992-2002.06.27-18.37.40--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich, That's what Simon's hub does. Isolates the various pieces of the network so there are no collisions and allows you to have more elements installed.
Alan Heaberlin

--- Rich Beckwith <wn0x@earthlink.net> wrote:
> I am trying to add a temperature/humidity pagoda to
> my network. Is there a
> trick to having two legs on the 1-wire network? I
> seem to remember some
> suggestions from long ago about resistors used to
> isolate the legs or
> something.
>
> Tnx,
>
> Rich
>
>
> ---
> You are currently subscribed to wxsig as:
> w6amh@yahoo.com
> To unsubscribe send a blank email to
> leave-wxsig-15067P@lists.tapr.org
>

_____
Do You Yahoo!?
Yahoo! - Official partner of 2002 FIFA World Cup
http://fifaworldcup.yahoo.com

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

16. [wxsig] Re: A network with legs.

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Thu, 27 Jun 2002 19:14:16 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-86999-2002.06.27-18.53.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>Rich
I tried to run a two legged star configeration and had nothing but trouble
with the wind direction and barometer. Apparently there arereflected
signals on the line that impead the communications. I fixed my problem by
making everything linear.
Alan is correct. A hub would do that, but there isn't any(yet) code in th
t-238 to support a hub operation.
Byron
> ---
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

17. [wxsig] Re: A network with legs.

From: "Ken Wolfe" <ken@iwolfe.net>
Date: Thu, 27 Jun 2002 19:42:46 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-87001-2002.06.27-19.20.24--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

OK.......tell me about Simon's hub.

Thanks,
Ken

> Rich, That's what Simon's hub does. Isolates the
> various pieces of the network so there are no
> collisions and allows you to have more elements
> installed.
> Alan Heaberlin
> --- Rich Beckwith <wn0x@earthlink.net> wrote:
> > I am trying to add a temperature/humidity pagoda to
> > my network. Is there a
> > trick to having two legs on the 1-wire network? I
> > seem to remember some
> > suggestions from long ago about resistors used to
> > isolate the legs or
> > something.

> >
> > Tnx,
> >
> > Rich
> >
> >
> > ---
> > You are currently subscribed to wxsig as:
> > w6amh@yahoo.com
> > To unsubscribe send a blank email to
> > leave-wxsig-15067P@lists.tapr.org
> >
>
>
> _____
> Do You Yahoo!?
> Yahoo! - Official partner of 2002 FIFA World Cup
> http://fifaworldcup.yahoo.com
>
> ---
> You are currently subscribed to wxsig as: ken@iwolfe.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

July 2002

Original source file: wxsig.0207
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0207

1. [wxsig] PDF generator

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sat, 6 Jul 2002 14:43:36 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-88301-2002.07.06-14.20.14--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have written a two page supplement to the TAPR Operations manual for the barometer. Anyone have the ability to convert it to a PDF file? It is now in Rich Text Format (RTF).
Byron

---

2. [wxsig] Re: PDF generator

From: Rick Gilligan <rick@case.net>
Date: Sat, 6 Jul 2002 13:42:09 -0700 (PDT)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-88315-2002.07.06-16.20.07--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Sat, 6 Jul 2002, Byron D. Lichtenwalner wrote:

> I have written a two page supplement to the TAPR Operations manual for
> the barometer. Anyone have the ability to convert it to a PDF file?
> It is now in Rich Text Format (RTF).

Can do. Please email directly to me.

Rick Gilligan

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---

3. [wxsig] Re: PDF generator

From: Harry Burford <res09c48@verizon.net>
Date: Sat, 06 Jul 2002 16:35:15 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-88332-2002.07.06-17.13.15--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

If you have an RTF and just want a PDF but haven't found anyone yet, send it on and I'll return a PDF. I have acrobat for the PC and the Mac OS X makes PDF's as a byproduct of print preview. PDF's suddenly became easy at my place. Glad to help.

Harry KA0TTY
Harry@burford.org

On 7/6/02 1:43 PM, "Byron D. Lichtenwalner" <w3wkr@ptd.net> wrote:

> I have written a two page supplement to the TAPR Operations manual for the
> barometer. Anyone have the ability to convert it to a PDF file? It is now in
> Rich Text Format (RTF).
> Byron
>

---

4. [wxsig] Re: PDF generator

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sat, 6 Jul 2002 19:22:00 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-88341-2002.07.06-19.01.55--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rick, thanks for the offer. Arnold Harding has already returned a PDF file that I will be posting on the wxsig FTP.
Byron
----- Original Message -----
From: Rick Gilligan <rick@case.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>

Sent: Saturday, July 06, 2002 4:42 PM
Subject: [wxsig] Re: PDF generator

> On Sat, 6 Jul 2002, Byron D. Lichtenwalner wrote:
>
> > I have written a two page supplement to the TAPR Operations manual for
> > the barometer. Anyone have the ability to convert it to a PDF file?
> > It is now in Rich Text Format (RTF).
>
> Can do. Please email directly to me.
>
> Rick Gilligan
>
>
>
> ---
> You are currently subscribed to wxsig as: w3wkr@ptd.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] Write for PSR

From: "stanzepa@earthlink.net" <stanzepa@earthlink.net>
Date: Thu, 18 Jul 2002 13:17:24 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: stanzepa@earthlink.net
Message-ID: <LYR15067-90026-2002.07.18-13.11.56--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

TAPR members:

Here is your chance to become rich and famous! Well, maybe not rich, but
certainly famous.

The editorial board of Packet Status Register (PSR, TAPR□s quarterly
newsletter) is now soliciting articles, news items, etc. for the next issue
of the newsletter. Topics related to digital Amateur Radio will be given
preference and the editorial board reserves the right to determine what is
suitable for publication.

E-mail your contributions to wa1lou@tapr.org ASAP because the deadline for
the next issue of the newsletter is July 24.

73,

Stan Horzepa, WA1LOU, PSR Editor

---
mail2web - Check your email from the web at
http://mail2web.com/ .

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] findu backup update

From: Guy Story <kc5goi@tapr.org>
Date: Fri, 26 Jul 2002 23:29:08 -0500 (CDT)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: <aprsspec@lists.tapr.org>
Message-ID: <LYR15067-91268-2002.07.27-00.08.19--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have received all the names that have made donations to the backup
server.
If you are missing or have a correction, email me off the list servers. I
also found out last saturday that there were a few checks still not run.
That was taken care of early this week and pushed the total to $6700.

I wish I could tell everyone that the server is in but I found out that the
original cart we had created expired. That occured due to the delay in
finding the 501c3 document. The document will allow Dell to give us a break
on the sales tax. Dell will quote the final price when they get the
document.
The treasurer for the DCARA was on vacation the week I found out that the
cart was fixing to expire. We have all the documentation in place and a
much higher amount that we had when the cart was built for the order.

Additional delays that have occured have been the results of work, 2 bike
rides (MADD and MS150) family and other assorted "disasters" that life
deals
out.

Let me talk about the server instead of excuses. Clint Miller , KD5BYY is
going to be the primary admin on the server. We will be third and I am
looking for someone to act as the secondary. That person will need to be
very knowledgeable about Linux, Apache and sql databases. I have had some
discussion with Steve about the redundancy levels. Clint is an owner of
Itel-Tigerbyte and specs out all our equipment. The backup server will be
featuring tape backup and a small raid array. If a system failure happens
and it takes out the data disk and it's raid mirror, the tape backup will
save that data. The server is not going to be built by Dell with all the
memory that is planned for it. Dell is very proud of it's memory upgrades
and we can beat the pricing by using local vendors for memory. We
orginally
wanted to get a rack mountable system but that costs more than it is
worth.
It is amazing what a rack mount form factor can do to cost. It will have a
dedicated battery backup and will talk to the UPS so if it needs to shut
down, it can do so in an intelligent manner. Last thing we want is to see
a
corrupt database due to a bad shutdown.

The server will be located at the co-location facility in Dallas Texas. It
will be connected via a T1 that links back to the Denton office. The
Denton
office is feed by a buisness class 1.5 megabit DSL circuit. The Dallas
Co-location facility also has redundant power and generator backup.

When I have the cart that is ordered I will post it to the lists so you
can
see what your donations purchased. Pictures will also be posted when the
server arrives.

Many hams contacted me directly offering to help purchase or find a
location
to make the server home. Thank you everyone for your offers. They were not
ignored or treated lightly.

I want to thank everyone for being patient in this endevor. It has taken
longer than anyone expected, but then again, it has exceeded most peoples
wildest expections. It will be worth the wait. Spider has been
instrumental
in the donation collection process. Over half the collected donations were
routed through him. Jim, I was not joking when I said you won the race.
Brent was also a major source of donation collections with his generous
offer. TAPR, as always, was a great helper and sport. We all owe these
guys
a big thanks at this time. The most important players have been those of
you
who were able to make donations. Pat yourselves on the back. You deserve
it.

73

--

Guy Story, KC5GOI
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] New AAG Wind Head problems

From: "Clay Bartholow" <w0led@arrl.net>
Date: Sun, 28 Jul 2002 12:7:2
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-91471-2002.07.28-12.45.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Byron! (and the rest of the WXSIG crew...)

I recently put together another T238 and I'm having troubles with it working with the new V3 Wind Head from AAG. I noticed this in some previous email:

Will
Forgot one thing. Network is 100 ft. 4 wire tele cable. 5 volt pin disconnected because of short in AAG wx head.
Byron

Is this short something that can be corrected in the Wind Head or is it due
to a PCB mod? Did you lift the L8 jumper in the T238 to disconnect the 5 volts from the 4-conductor cable? Did you talk to AAG about this short? I
know there was some note inside the packing box for the Wind Head but I didn't quite understand what it was trying to say. I have used it both with and without the little shorting plug they provided but I haven't got a clue what it (the shorting plug) is supposed to do. I measure a short from pin 4 to pin 5 in the Wind Head but their shorting plug shorts between pins 2 and 5 (if I have my numbering straight). Wondering what short you may have been referring to (4-5 or 2-5 due to shorting plug) and whether you know why this is different than the original DalSemi Wind Head (it would be nice if they were easily interchangeable on a hardware basis...)

On another note, you indicated that you had a problem when connecting the BP board to the T238 via J6 (if I was reading the email correctly.) How is
this any different than connecting the RTC to J6? I saw that was how you have your RTC wired (and it's how I did it on my T238 #1). I'm not sure what you mean when you say you have everything daisy-chained? I thought the 1-Wire network was multi-drop or star by design so I don't understand what you are trying to describe.

73,

Clay

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] Re: New AAG Wind Head problems

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sun, 28 Jul 2002 13:27:19 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-91474-2002.07.28-13.05.16--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay
Forgot to post it on here, but there is a problem with power distribution to the Wx V3 if you use 4 wire distribution.

Pin 1 on the AAG WX head is 5 volt input, pin 3 &4 are both grounded. I found that was a BIG problem. I cut the wire going to the #4 pin, and that fixed the problem.

To use the Bray/Jennings barometer a greater than 11 volt input is required

to the board. I changed the 5 volt output on the connector to 12 volts
(after fusing with a 3.9 ohm, 1/4 watt resistor) to run the humidity sensor
and barometer.

I have noticed several people are running 5 volts to the Version 3 AAG WX
head. Seems that is stabilizing the A to D converter used in that design.
I am still getting a fairly high rate of errors that I expect are due to
varing recovered voltages trying to run the AAG head. Will probably add a 5
volt regulator to give me a more stable voltage to the WX head from the 12
volt feed I have out side to the Humidity sensor and rain gauge.
Byron
----- Original Message -----
From: Clay Bartholow <w0led@arrl.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Sunday, July 28, 2002 12:00 AM
Subject: [wxsig] New AAG Wind Head problems

> Hi Byron! (and the rest of the WXSIG crew...)
>
> I recently put together another T238 and I'm having troubles with it
> working with the new V3 Wind Head from AAG. I noticed this in some
> previous email:
>
> Will
> Forgot one thing. Network is 100 ft. 4 wire tele cable. 5 volt pin
> disconnected because of short in AAG wx head.
> Byron
>
> Is this short something that can be corrected in the Wind Head or is it
> due
> to a PCB mod? Did you lift the L8 jumper in the T238 to disconnect the 5
> volts from the 4-conductor cable? Did you talk to AAG about this short?
> I
> know there was some note inside the packing box for the Wind Head but I
> didn't quite understand what it was trying to say. I have used it both
> with and without the little shorting plug they provided but I haven't got
a
> clue what it (the shorting plug) is supposed to do. I measure a short
from
> pin 4 to pin 5 in the Wind Head but their shorting plug shorts between
pins
> 2 and 5 (if I have my numbering straight). Wondering what short you may
> have been referring to (4-5 or 2-5 due to shorting plug) and whether you
> know why this is different than the original DalSemi Wind Head (it would
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>
> On another note, you indicated that you had a problem when connecting the
> BP board to the T238 via J6 (if I was reading the email correctly.) How
> is
> this any different than connecting the RTC to J6? I saw that was how you
> have your RTC wired (and it's how I did it on my T238 #1). I'm not sure
> what you mean when you say you have everything daisy-chained? I thought
> the 1-Wire network was multi-drop or star by design so I don't understand
> what you are trying to describe.
>
> 73,
>
> Clay
>
> ---
> You are currently subscribed to wxsig as: w3wkr@ptd.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] AAG V3 wind direction errors

From: "Clay Bartholow" <w0led@arrl.net>
Date: Sun, 28 Jul 2002 16:15:37
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-91502-2002.07.28-16.54.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will et al,

I've been trying to get a new T238 and a new AAG V3 wx head working right. Temp and wind speed works OK but the wind direction sometimes indicates a valid direction and sometimes doesn't. When it doesn't the display shows blanks.

I've run the DalSemi i-button viewer and observed the pattern of H, M, and L voltages produced by the AD. The sequence is correct per the chart data you sent Byron in a previous email. High voltages were 4.595, 4.600, 4.605, 4.580, 4.585. Low voltages were 0.040, 0.045, and 0.035. Medium voltages were 3.145, 3.140, 2.310, 3.130, 2.345, 2.300, 2.305, 2.355, 3.165. (Not in any particular order, just collecting sample readings -- again, the sequences of H, M, and L voltages correspond to your chart.) The high Medium voltages seem to correspond to the directions that show up as blanks on the display.

I read your correspondence with Byron regarding his high Medium voltages and understand your "paranoia" but I wonder if the range of acceptable values for Medium could be opened up a bit? Is this something I could do in the source code, recompile, and test here locally? Or am I oversimplifying the problem?

Clay

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] RE: AAG V3 wind direction errors

From: "William Beals" <will@beals5.com>
Date: Sun, 28 Jul 2002 16:51:49 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-91517-2002.07.28-18.24.23--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay:

I looked up my table on conversions, and I have the middle voltage about as wide as I can make it. I do a three bit conversion with values of 0 and 1 being low (0-1.28V), values 2-5 at medium (1.28-V to 3.52V) and 6, 7 at high (3.55-5.0V). There is still quite a ways between your measured 3.14 and my 3.57 volts, but that could be due to some errors introduced by line lengths, or voltage reference problems. I checked out the specs for the DS2450, and they do not have any issues with using an external reference for conversion, so it is not ratiometric like the humidity sensor is.

I needed, I can open up the medium one more count, but at 4.16V we are getting pretty high up the scale and if you were to have some long line lengths, you could end up getting problems the other way.

It does seem strange that your medium voltages do vary that much. It sounds like the resistors are not very well matched. 2.5V should be the nominal value, and being as high as 3.145 volts seems way out of tolerance for a 5% or even 10% resistor. If the resistance of the reed switches was high, that could also cause the problem, but we have lots of good data that they are virtually bullet-proof devices. As a last resort, you may want to consider replacing the pullup resistors on the AAG sensor with something having a larger value on the two lines that are out of spec.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Clay Bartholow
Sent: Sunday, July 28, 2002 4:16 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] AAG V3 wind direction errors

Will et al,

I've been trying to get a new T238 and a new AAG V3 wx head working right. Temp and wind speed works OK but the wind direction sometimes indicates a valid direction and sometimes doesn't. When it doesn't the display shows blanks.

I've run the DalSemi i-button viewer and observed the pattern of H, M, and L voltages produced by the AD. The sequence is correct per the chart data

you sent Byron in a previous email. High voltages were 4.595, 4.600,
4.605, 4.580, 4.585. Low voltages were 0.040, 0.045, and 0.035. Medium
voltages were 3.145, 3.140, 2.310, 3.130, 2.345, 2.300, 2.305, 2.355,
3.165. (Not in any particular order, just collecting sample readings --
again, the sequences of H, M, and L voltages correspond to your chart.)
The high Medium voltages seem to correspond to the directions that show up
as blanks on the display.

I read your correspondence with Byron regarding his high Medium voltages
and understand your "paranoia" but I wonder if the range of acceptable
values for Medium could be opened up a bit? Is this something I could do
in the source code, recompile, and test here locally? Or am I
oversimplifying the problem?

Clay

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] Re: AAG V3 wind direction errors

From: "Byron Lichtenwalner" <w3wkr@ptd.net>
Date: Sun, 28 Jul 2002 22:33:59 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-91536-2002.07.28-22.12.47--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay, Will
If I look at the schematic of the V3 AAG, it seems there is a combination of
switch closures that can produce mid voltages as low as 2.3 volts and as
high as 3.8 volts if the parisitic power supply is sufficient to hold Vdd at
4.6 volts or so. The lowest the high voltage could be is just a bit below
the Vdd from the parisitic supply. (Theoritically should be the voltge of
the 1 wire buss at close to 5 volts.) The time constant of the 22 Mf
cap.and the equivilent load resistance from the chips and resistors on the
AAG wx head should be able to hold this voltage up fine, except when it
becomes leakey as mine did a few months ago. As I noted to Clay earlier
supplying 5 volts to pin 1 might solve all the problems if the T238
software switching point recognition was then set at about 4 volts.

Clay, your question on the jumper. Vdd on the temp chip is not connected to
internally to the power supply. The jumper I believe connects the external
power connector on pin 1 to the Vdd pin on the temp. sensor chip, thus
enabling its internal parisitic oower supply.
Byron

----- Original Message -----
From: Clay Bartholow <w0led@arrl.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Sunday, July 28, 2002 4:15 PM
Subject: [wxsig] AAG V3 wind direction errors

> Will et al,
>
> I've been trying to get a new T238 and a new AAG V3 wx head working right.
> Temp and wind speed works OK but the wind direction sometimes indicates a
> valid direction and sometimes doesn't. When it doesn't the display shows
> blanks.
>
> I've run the DalSemi i-button viewer and observed the pattern of H, M, and
> L voltages produced by the AD. The sequence is correct per the chart data
> you sent Byron in a previous email. High voltages were 4.595, 4.600,
> 4.605, 4.580, 4.585. Low voltages were 0.040, 0.045, and 0.035. Medium
> voltages were 3.145, 3.140, 2.310, 3.130, 2.345, 2.300, 2.305, 2.355,
> 3.165. (Not in any particular order, just collecting sample readings --
> again, the sequences of H, M, and L voltages correspond to your chart.)
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> as blanks on the display.
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> I read your correspondence with Byron regarding his high Medium voltages
> and understand your "paranoia" but I wonder if the range of acceptable
> values for Medium could be opened up a bit? Is this something I could do

> in the source code, recompile, and test here locally? Or am I
> oversimplifying the problem?
>
> Clay
>
> ---
> You are currently subscribed to wxsig as: w3wkr@ptd.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] Re: AAG V3 wind direction errors(correction)

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Mon, 29 Jul 2002 06:47:10 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-91590-2002.07.29-06.25.04--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Sorry. Highest voltage possible with 4.6 volts from the parisitic supply is
3.34 assumming resistor tolerance of 20%.
Byron
----- Original Message -----
From: Byron Lichtenwalner <w3wkr@ptd.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Sunday, July 28, 2002 10:33 PM
Subject: [wxsig] Re: AAG V3 wind direction errors

> Clay, Will
> If I look at the schematic of the V3 AAG, it seems there is a combination
of
> switch closures that can produce mid voltages as low as 2.3 volts and as
> high as 3.8 volts if the parisitic power supply is sufficient to hold Vdd
at
> 4.6 volts or so. The lowest the high voltage could be is just a bit below
> the Vdd from the parisitic supply. (Theoritically should be the voltge of
> the 1 wire buss at close to 5 volts.) The time constant of the 22 Mf
> cap.and the equivilent load resistance from the chips and resistors on the
> AAG wx head should be able to hold this voltage up fine, except when it
> becomes leakey as mine did a few months ago. As I noted to Clay earlier
> supplying 5 volts to pin 1 might solve all the problems if the T238
> software switching point recognition was then set at about 4 volts.
>
> Clay, your question on the jumper. Vdd on the temp chip is not connected
to
> internally to the power supply. The jumper I believe connects the
external
> power connector on pin 1 to the Vdd pin on the temp. sensor chip, thus
> enabling its internal parisitic oower supply.
> Byron
>
>
> ----- Original Message -----
> From: Clay Bartholow <w0led@arrl.net>
> To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
> Sent: Sunday, July 28, 2002 4:15 PM
> Subject: [wxsig] AAG V3 wind direction errors
>
>
> > Will et al,
> >
> > I've been trying to get a new T238 and a new AAG V3 wx head working
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> > Temp and wind speed works OK but the wind direction sometimes indicates
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> > valid direction and sometimes doesn't. When it doesn't the display
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> > I've run the DalSemi i-button viewer and observed the pattern of H, M,
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> > values for Medium could be opened up a bit? Is this something I could
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> > oversimplifying the problem?
> >
> > Clay
> >
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>
>
> ---
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13. [wxsig] Wind Dir Problems

From: "Clay Bartholow" <w0led@arrl.net>
Date: Tue, 30 Jul 2002 6:36:20
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-91835-2002.07.30-07.15.22--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

First, Byron, you mentioned that you had a schematic of the AAG V3 Wx
head. Did AAG send that to you? How can I get a copy?

Second, I set the i-button viewer to 3 bit conversions to see what
difference that might have -- it was minor -- now the Medium voltages are
either 2.56 or 3.20. However, I did notice that whenever two adjacent
channels were H-M the Medium voltage was reported as 2.56 but when the
adjacent channels were M-M that's when they both indicate 3.20. Any
thoughts?

Even at 3.20 V that still seems within the bounds for a Medium voltage so
I'm still confused as to why the T238 displays blanks...

Clay

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14. [wxsig] Re: Wind Dir Problems

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Tue, 30 Jul 2002 08:45:51 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-91847-2002.07.30-08.26.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Clay
Go to the AAG site and the schematic is right below the description of the
WX head.

The voltages you mentioned are about right. They are determined by either
reading the mid point of two 47k resistors in series, or the connection
between two 47k resistors in parallel, then in series with a 47k resistor.
That 47k series resistor is used on half of the reed relay contacts.
I must admit, I am also confused. The only explaination I have is thqt
perhaps the magnet on the wind direction vane is in motion when a reading is
taken. From what I cna see, the ADC is not s sample and hold device,so if

the vane is in motion it might produce an "illegal" combination of bits. i
kind have gone thru he same tests as you have, and recorded similar results.
However, no soultion.

I would estimate I get "errors" about 10% of the time now. Used to be much
higher with the old board with the bad cap. Hope this one doesn't go bad.
If it does, I will definately power the WX head with 5 volts on pin 1.
Byron
----- Original Message -----
From: Clay Bartholow <w0led@arrl.net>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Tuesday, July 30, 2002 6:36 AM
Subject: [wxsig] Wind Dir Problems

> First, Byron, you mentioned that you had a schematic of the AAG V3 Wx
> head. Did AAG send that to you? How can I get a copy?
>
> Second, I set the i-button viewer to 3 bit conversions to see what
> difference that might have -- it was minor -- now the Medium voltages are
> either 2.56 or 3.20. However, I did notice that whenever two adjacent
> channels were H-M the Medium voltage was reported as 2.56 but when the
> adjacent channels were M-M that's when they both indicate 3.20. Any
> thoughts?
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> Even at 3.20 V that still seems within the bounds for a Medium voltage so
> I'm still confused as to why the T238 displays blanks...
>
> Clay
>
> ---
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August 2002

Original source file: wxsig.0208
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0208

1. [wxsig] T238 talking to a KPC 3 Plus

From: "Mike Myers" <kf6ihl@hotmail.com>
Date: Thu, 1 Aug 2002 08:01:17 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-92226-2002.08.01-10.38.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

A number of months ago, I posted to the list seeing if I could find some help, and found a great deal. Thanks to all of you. But I was still not able to get my T238 to talk to my KPC. This was a problem that I had been having for a number of months, and I was sure that I was not going to get my WX station to work.

After enough experimenting, I found that the problem with the serial communication was related to the power supply for the T238. In the documentation, it notes that one can drive the T238 with a HTX 202 wall wart. From the time I had completed building the T238 and through all of my frustration, I was using the HTX power adapter to drive my WX station, and it would just not work.

What finally turned out to be the communication issue, was the fact that I was not running both the TNC and the T238 off the same power source. I finally moved both to the same 12 volt power source, and magically everything started working. I was quite shocked that it would make any difference. Apparently it does.

I was wondering if anyone else has run into this problem. I was also wondering if anyone knew why it made a difference. The funny thing was, I was always able to use a null modem on the TNC port to see the data coming from the T238, even when I was running on the wall wart. So the behavior of the KPC was inconsistent with the behavior of the PC when connected to the same port on the T238.

Were it not for a problem we had with a device on the repeater not working properly when it was on a wall wart, I probably would have my WX station gathering dust on a shelf at this point. But eventually after I had used more than one wall wart to power the T238, I moved to one 12 volt regulated supply for the entire deal, and surprise, it started working.

I hope if anyone else is having a similar experience, that this will help them out.

-Mike

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Re: T238 talking to a KPC 3 Plus

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Thu, 1 Aug 2002 14:25:31 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-92272-2002.08.01-14.03.36--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mike
The description you have given suggests you were missing a common ground from your t238 and KPC. Had you checked this?
Byron
----- Original Message -----
From: Mike Myers <kf6ihl@hotmail.com>
To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
Sent: Thursday, August 01, 2002 11:01 AM
Subject: [wxsig] T238 talking to a KPC 3 Plus

> A number of months ago, I posted to the list seeing if I could find some
> help, and found a great deal. Thanks to all of you. But I was still not
> able to get my T238 to talk to my KPC. This was a problem that I had been
> having for a number of months, and I was sure that I was not going to get
my
> WX station to work.
>

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> communication was related to the power supply for the T238. In the
> documentation, it notes that one can drive the T238 with a HTX 202 wall
> wart. From the time I had completed building the T238 and through all of
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> frustration, I was using the HTX power adapter to drive my WX station, and
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>
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>

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] RE: Wind Dir Problems

From: "William Beals" <will@beals5.com>
Date: Thu, 1 Aug 2002 21:38:05 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-92325-2002.08.01-23.10.41--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Clay:

Didn't see a reply to this, so I went digging through my archives. Here it
is.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Clay Bartholow
Sent: Tuesday, July 30, 2002 6:36 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Wind Dir Problems

First, Byron, you mentioned that you had a schematic of the AAG V3 Wx
head. Did AAG send that to you? How can I get a copy?

Second, I set the i-button viewer to 3 bit conversions to see what
difference that might have -- it was minor -- now the Medium voltages are
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thoughts?

Even at 3.20 V that still seems within the bounds for a Medium voltage so

I'm still confused as to why the T238 displays blanks...

Clay

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
[Attachment: 3.0.PDF; application/pdf; 7,565 bytes]

4. [wxsig] Re: T238 talking to a KPC 3 Plus

From: "Mike Myers" <kf6ihl@hotmail.com>
Date: Fri, 2 Aug 2002 22:01:58 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-92455-2002.08.03-00.39.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks for your response Byron,

I had in fact checked that the ground on the serial ports was good. The
cable that I was using had, and still has, a ground wire. I was able to get
continuity from the ground pin on the back of the jack on the TNC to the
back of the jack on the T238. I still wonder if the wall wart has some sort
of isolation issue.

-Mike

----- Original Message -----
From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Thursday, August 01, 2002 11:25 AM
Subject: [wxsig] Re: T238 talking to a KPC 3 Plus

> Mike
> The description you have given suggests you were missing a common ground
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> Byron
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> To: TAPR WX Special Interest Group <wxsig@lists.tapr.org>
> Sent: Thursday, August 01, 2002 11:01 AM
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> > ---
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You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] 2002 issue of Packet Status Register (PSR)

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Tue, 06 Aug 2002 19:56:38 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-93030-2002.08.06-19.36.09--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The summer 2002 issue of Packet Status Register (PSR) is now available at
www.tapr.org.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] Advance Spotter Training

From: "Ken" <n9zip@attbi.com>
Date: Tue, 13 Aug 2002 16:16:53 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-93850-2002.08.13-16.56.35--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Next March, Northern Indiana will host an Advance Spotter Class.

For for information visit our web site.

http://home.attbi.com/~lapcoskywarn/training.html

73's
Ken N9ZIP
NWS (IWX) TECH

September 2002

Original source file: wxsig.0209
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0209

1. [wxsig] SAME mods?

From: Steve Lampereur <kb9mwr@yahoo.com>
Date: Fri, 6 Sep 2002 09:48:25 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-97443-2002.09.06-10.29.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Some of this maybe a little off topic. Just curious if anyone has done or
seen anything done with the Specific Area Message Encoding (SAME) that NOAA
sends out? Does anyone know what chip does the decoding, can you tap the
data stream and somehow export that
i.e. "BROWN COUNTY: TORNADO WATCH" and send it to a TNC or computer? How
about adding
logic ports and interfacing to repeater controllers; one for watches one for
warnings?
Any URL's to good mod sites whould be appreciated.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Re: SAME mods?

From: Ken Brown <ken.brown@ounnws.noaa.gov>
Date: Fri, 06 Sep 2002 16:13:24 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-97448-2002.09.06-11.54.08--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Steve,

There have been a couple of vendors that have made SAME decoders available
and I know that some ham radio repeater operators have used them to key up
their local repeater when a warning ws issued. I don't have the info directly
at hand but I'll try to get it unless some one else chimes in with it.
--
Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

Steve Lampereur wrote:
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3. [wxsig] Re: SAME mods?

From: Steve Lampereur <kb9mwr@yahoo.com>
Date: Fri, 6 Sep 2002 14:11:02 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-97460-2002.09.06-14.51.50--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I've worked with the older Radio Shack weather radio models which use the
1050 Hz tone;
>http://www.qsl.net/kb9mwr/projects/wxalert/plan.html
>Weather Radio Alert Computer Interface
>
>This simple project will show you how to modify and interface the
>Realistic WeatherRadio Alert III to your Linux computer. It interfaces
>to your parallel port and the Linux software patch watches pin 2, which
>goes high when the National Weather Service sends it's alert signal. At
>which time a shell script is forked and you can configure it to; send a

>packet radio or internet message with the latest advisory, dial pagers
>with minicom, speak the alert over a two radio utilizing a voice
>synthesizer package, or anything else you can think of.

The problem with the newer models is that they require you to acknowledge
the alert (press a button) in some manner before they will retrigger. And
again it would be ideal if you could decode the SAME message and send it out
as a packet beacon or message, or have your voice repeater system announce
the details.

>Steve,
>There have been a couple of vendors that have made SAME decoders
>available and I know that some ham radio repeater operators have
>used them to key up their local repeater when a warning ws issued.
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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] Re: SAME mods?

From: "Kevin Brown" <kbrown@powerhouseproductions.com>
Date: Fri, 6 Sep 2002 14:44:03 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-97463-2002.09.06-15.24.43--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Or, you might be able to craft a canned message, then receive the
APRS_WX headers from the APRS-IS. Using the limited information from
APRS-IS you would have the county header identifiers and the message
type. Those in turn could be used to trigger an event that sends a
generic warning notification listing the counties, using an existing
infrastructure and product.

Else, you could almost do the same thing from the EMWIN feed...

-----Original Message-----
From: bounce-wxsig-20681@lists.tapr.org
[mailto:bounce-wxsig-20681@lists.tapr.org] On Behalf Of Steve Lampereur
Sent: Friday, September 06, 2002 2:11 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Re: SAME mods?

I've worked with the older Radio Shack weather radio models which use
the 1050 Hz tone;
>http://www.qsl.net/kb9mwr/projects/wxalert/plan.html
>Weather Radio Alert Computer Interface
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>Ken.Brown@ounnws.noaa.gov

You are currently subscribed to wxsig as:
kbrown@powerhouseproductions.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] Re: SAME mods? <LYR22594-97448-2002.09.06-11.54.08--ssbrockw#swbell.net@lists.tapr.org>

From: Steve <ssbrockw@swbell.net>
Date: Fri, 06 Sep 2002 19:16:17 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-97493-2002.09.06-20.02.38--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This link will take you to the NWS site PDF that explains all the coding.
Someone that can write code (meaning that I can't) should be able to do a
decoder for the incoming data.

http://205.156.54.206/nwr/same.pdf

73,
Steve
KA5YFC

> Steve Lampereur wrote:
> >
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> has done or
> > seen anything done with the Specific Area Message Encoding
> (SAME) that NOAA
> > sends out? Does anyone know what chip does the decoding, can
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You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] Re: SAME mods?

From: Jerry Stueve <KE4NFJ@QSL.Net>
Date: 07 Sep 2002 09:56:05 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Cc: Steve Lampereur <kb9mwr@yahoo.com>
Message-ID: <LYR15067-97555-2002.09.07-09.36.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Steve Lampereur wrote:
>
> Some of this maybe a little off topic. Just curious if anyone has
> done or seen anything done with the Specific Area Message Encoding
> (SAME) that NOAA sends out? Does anyone know what chip does the
> decoding, can you tap the data stream and somehow export that
> i.e. "BROWN COUNTY: TORNADO WATCH" and send it to a TNC or computer?
> How about adding logic ports and interfacing to repeater controllers;
> one for watches one for warnings?
> Any URL's to good mod sites whould be appreciated.

Try http://www.jmu.edu/wmra/eas/equipment.html for a index to
broadcaster and consumer solutions. Look at the MTS for high-end as well

as useful low-end solution descriptions. The WC8J decoder looks
interesting but the web page indicates out-of-stock.

-- 73,
Jerry KE4NFJ

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] Re: SAME mods?

From: Ken Brown <ken.brown@ounnws.noaa.gov>
Date: Mon, 09 Sep 2002 16:26:27 +0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-97818-2002.09.09-12.07.21--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Steve,

This link is for equipment to use SAME codes to key up a repeater. It appears
that some of the vendors that had the original board level decoders are no longer
in business but this site may help. http://www.catauto.com/wxreview.html

--
Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

Steve Lampereur wrote:
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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] Re: SAME mods?

From: Michael Barelli "W□MAF" <barelmic@yahoo.com>
Date: Mon, 9 Sep 2002 10:34:08 -0700 (PDT)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-97823-2002.09.09-13.15.01--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

You could use the Radio Shack Weather Radio Model: 12-250.
This radio has a switched output to control x-10 devices. Use your emagination from that point on.
 Ken Brown wrote:
Steve,

This link is for equipment to use SAME codes to key up a repeater. It appears
that some of the vendors that had the original board level decoders are no longer
in business but this site may help. http://www.catauto.com/wxreview.html

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Kenneth A. Brown, WFO OUN, Norman OK
Ken.Brown@ounnws.noaa.gov

Steve Lampereur wrote:
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You are currently subscribed to wxsig as: barelmic@yahoo.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

Michael Barelli W□MAF

Do You Yahoo!?
Yahoo! Finance - Get real-time stock quotes

9. [wxsig] Re: SAME mods?

From: Mark Phillips <g7ltt@g7ltt.com>
Date: Tue, 10 Sep 2002 20:04:58 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-98070-2002.09.10-19.48.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Emagination? Is this some sort of new virtual imagination system from Mr Gates? Has he finally been able to tell us how to think now?

Mark Phillips, G7LTT/KC2ENI
Randolph, NJ 07869
http://www.g7ltt.com

> You could use the Radio Shack Weather Radio Model: 12-250.
>
> This radio has a switched output to control x-10 devices. Use your emagination from that point on.
>
> Ken Brown wrote:

10. [wxsig] troubleshooting my new T-238 kit

From: "Scott Johnson" <sjohnson66@cox.net>
Date: Wed, 11 Sep 2002 15:49:56
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-98180-2002.09.11-16.30.58--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ok folks...a newbie here...I just assembled my t238 kit. All went flawlessly with the assembly, initial testing, voltages, messages, etc. I then assembled my DS9097U AAG 1 wire weather station and downloaded the software and hooked it up to the computer. All tests OK...wind speed, direction, temp. When I hook it up to the T238 and proceed thru the setup process as described in the manual I am stranded at the prompt: "rotate clockwise slowly 1/3 --------". I am unable to proceed any further and it doesn't appear to be receiving any data. When I re-boot, the current conditions displays windspeed ok but the temp is intermittent and, of course, the wind direction is blank. Any thoughts? Please consider helping this new guy out.
Thanks....Scott AB0SS (Wichita, KS)

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] RE: troubleshooting my new T-238 kit

From: "jrehkopf" <jrehkopf@bellsouth.net>
Date: Wed, 11 Sep 2002 21:28:03 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-98214-2002.09.11-21.07.12--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

If you are using a v 3.0 weather station you need to update the firmware in the T-238.

-----Original Message-----
From: bounce-wxsig-25583@lists.tapr.org
[mailto:bounce-wxsig-25583@lists.tapr.org] On Behalf Of Scott Johnson
Sent: Wednesday, September 11, 2002 3:50 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] troubleshooting my new T-238 kit

Ok folks...a newbie here...I just assembled my t238 kit. All went

flawlessly with the assembly, initial testing, voltages, messages, etc.
I
then assembled my DS9097U AAG 1 wire weather station and downloaded the
software and hooked it up to the computer. All tests OK...wind speed,
direction, temp. When I hook it up to the T238 and proceed thru the
setup
process as described in the manual I am stranded at the prompt: "rotate
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this new guy out.
Thanks....Scott AB0SS (Wichita, KS)

You are currently subscribed to wxsig as: jrehkopf@bellsouth.net
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] Re: troubleshooting my new T-238 kit

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Wed, 11 Sep 2002 16:54:54 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-98227-2002.09.11-23.20.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Scott, which version of the weather station?
----- Original Message -----
From: "Scott Johnson" <sjohnson66@cox.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Wednesday, September 11, 2002 3:49 PM
Subject: [wxsig] troubleshooting my new T-238 kit

> Ok folks...a newbie here...I just assembled my t238 kit. All went
> flawlessly with the assembly, initial testing, voltages, messages, etc. I
> then assembled my DS9097U AAG 1 wire weather station and downloaded the
> software and hooked it up to the computer. All tests OK...wind speed,
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> this new guy out.
> Thanks....Scott AB0SS (Wichita, KS)
>
> ---
> You are currently subscribed to wxsig as: wn0x@earthlink.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

13. [wxsig] Re: troubleshooting my new T-238 kit

From: "Scott S. Johnson MD" <sjohnson66@cox.net>
Date: Fri, 13 Sep 2002 09:27:18 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-98463-2002.09.13-10.08.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

Tnx for the response. The version is 3.0

Scott
----- Original Message -----
From: "Rich Beckwith" <wn0x@earthlink.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>

Sent: Wednesday, September 11, 2002 4:54 PM
Subject: [wxsig] Re: troubleshooting my new T-238 kit

> Scott, which version of the weather station?
> ----- Original Message -----
> From: "Scott Johnson" <sjohnson66@cox.net>
> To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
> Sent: Wednesday, September 11, 2002 3:49 PM
> Subject: [wxsig] troubleshooting my new T-238 kit
>
>
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> > To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
> >
>
>
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> You are currently subscribed to wxsig as: sjohnson66@cox.net
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] TNX For Assistance

From: "Scott Johnson" <sjohnson66@cox.net>
Date: Sat, 14 Sep 2002 10:36:0
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-98572-2002.09.14-11.17.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Tnx for the assistance on my new aprs weather station...it is up and
running.

Scott AB0SS (Wichita, KS)

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

15. [wxsig] RE: TNX For Assistance

From: "William Beals" <will@beals5.com>
Date: Sun, 15 Sep 2002 07:39:24 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-98730-2002.09.15-09.12.00--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks Scott and Rich. Was out of the country and email-less for the past
couple of weeks.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Scott Johnson
Sent: Saturday, September 14, 2002 10:00 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] TNX For Assistance

Tnx for the assistance on my new aprs weather station...it is up and
running.

Scott AB0SS (Wichita, KS)

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

October 2002

Original source file: wxsig.0210
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0210

1. [wxsig] Write

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Wed, 02 Oct 2002 18:41:05 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-101416-2002.10.02-18.34.55--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

TAPR members:

Here is your chance to become rich and famous! Well, maybe not rich, but
certainly famous.

The editorial board of Packet Status Register (PSR, TAPR□s quarterly
newsletter) is now soliciting articles, news items, etc. for the next issue
of the newsletter. Topics related to digital Amateur Radio will be given
preference and the editorial board reserves the right to determine what is
suitable for publication.

E-mail your contributions to wa1lou@tapr.org ASAP because the deadline for
the next issue of the newsletter is October 24.

73,

Stan Horzepa, WA1LOU, PSR Editor

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Bray Barometer

From: Russ Hummel <hummel@HSC.VCU.EDU>
Date: Mon, 07 Oct 2002 09:01:15 -0400
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-102029-2002.10.07-08.46.22--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Has the software for the T238 WX station been updated to support the Bray
Barometer ? Just wondering... I had not heard anything about it in several
months   TNX
Russ WB4PGT
-

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] RE: Bray Barometer

From: "William Beals" <will@beals5.com>
Date: Mon, 7 Oct 2002 20:43:54 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-102121-2002.10.07-22.25.46--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Russ:

Good question. I have the Bray barometer and Byron's code. My work
schedule lately has been interfering with my fun schedule, not affording the
time I would like to spend on the T238. I will get it done.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Russ Hummel
Sent: Monday, October 07, 2002 7:01 AM
To: TAPR WX Special Interest Group
Subject: [wxsig] Bray Barometer

Has the software for the T238 WX station been updated to support the Bray
Barometer ? Just wondering... I had not heard anything about it in several

months   TNX
Russ WB4PGT
-

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] data output

From: "Phil Reid" <phil@pixelogix.com>
Date: Fri, 11 Oct 2002 14:40:34
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-102449-2002.10.11-15.22.57--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Question. Can both telemetry and RS-232 ports be utilized simultaneously?

I wish to transmit data, via a TigerTrak, and store data on a Linux
machine.

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

5. [wxsig] RE: data output

From: "Will Beals" <will@beals5.com>
Date: Fri, 11 Oct 2002 16:33:55 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-102497-2002.10.12-10.15.52--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Phil:

The answer is "sorta".

The two connectors are just DCE and DTE versions of the same signals. The
interaction with the TNC needs to be two-way for setup purposes (and only
setup purposes) while the computer port should be a transmit-only setup.

All lines are sharable without crating conflict except the TNCs and
Computers TX lines. Hence, if you do something to disable the computers TX
signal (either by modifying the cable or the T238), then you can safely plug
in both a TNC and your computer.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Phil Reid
Sent: Friday, October 11, 2002 2:41 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] data output

Question. Can both telemetry and RS-232 ports be utilized simultaneously?

I wish to transmit data, via a TigerTrak, and store data on a Linux
machine.

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

6. [wxsig] low bus voltage

From: "Bill Gray" <bill.gray@thot.net>
Date: Mon, 14 Oct 2002 15:17:30
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>

Message-ID: <LYR15067-102752-2002.10.14-16.00.02--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The history search doens't seem to work so I'm asking a question that I know has been asnwered previosuly.

My station has been working well for over a year. I've sucessfully upgraded the software a couple of times - currently at 13.0, one rev back. It stopped working a little while ago. When I checked, the wind direction vane had fallen off and the unit was not displaying data. It reports a bus error. The voltage is 2.5V when it should be 5.0 volts when connected to the ehad and reports 5.2V when not connected to the head. I've checked the head and nothing looks fried.

I recall this being disussed previously but and tried to search for the thread but cannot locate it. Can somone direct me to the discussion?

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

7. [wxsig] RE: low bus voltage

From: "William Beals" <will@beals5.com>
Date: Mon, 14 Oct 2002 20:32:43 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-102805-2002.10.14-22.14.33--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill:

No problem.

The most common failure is one of the static protection diodes. I'm not sure how many sensors you have hooked up, but the best way to isolate which sensor is to remove one sensor at a time until you see the bus voltage go up. First, make sure it goes up when you remove everything just to confirm it is a sensor and not the T238.

Once you isolate it to a sensor, the schematic will let you know which component is the diode. Finding it on the board is sometime challenging though!

This seems to have solved the problem for most.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Bill Gray
Sent: Monday, October 14, 2002 3:18 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] low bus voltage

The history search doens't seem to work so I'm asking a question that I know has been asnwered previosuly.

My station has been working well for over a year. I've sucessfully upgraded the software a couple of times - currently at 13.0, one rev back. It stopped working a little while ago. When I checked, the wind direction vane had fallen off and the unit was not displaying data. It reports a bus error. The voltage is 2.5V when it should be 5.0 volts when connected to the ehad and reports 5.2V when not connected to the head. I've checked the head and nothing looks fried.

I recall this being disussed previously but and tried to search for the thread but cannot locate it. Can somone direct me to the discussion?

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

8. [wxsig] RE: low bus voltage

From: "Bill Gray" <bill.gray@thot.net>
Date: Tue, 15 Oct 2002 13:10:48
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-102889-2002.10.15-13.53.23--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm using the Dallas Semi weather head made by AAG in Mexico.

I'll try to find and test the diode(s). Thanks for the advice.

Bill Gray

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

9. [wxsig] Callsign extensions

From: "Fred Sanders" <WK1F@ARRL.Net>
Date: Tue, 22 Oct 2002 21:11:18
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-104111-2002.10.22-21.54.11--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

New to the group here, and also, weather station APRS ops. What number should I be using behind my call sign (WK1F-??)at the fixed weather station here at the home QTH (digipeating is enabled)?? What about my APRS station in RV when the weather station is in OPS at home QTH?

When I travel in RV, I use Pactor (Winlink) for Email. I send my position report using Pactor whenever I change locations and this will appear on the internet FINDu. I really need my call sign (WK1F) without any extension for pactor and winlink OPS for readily identification.

Any thoughts for my situation??

Thanks,

Fred

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

10. [wxsig] Re: Callsign extensions

From: "Mike Myers" <kf6ihl@hotmail.com>
Date: Wed, 23 Oct 2002 10:20:46 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-104194-2002.10.23-13.03.17--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Fred,

I have seen many different thought processes with regard to what extension one uses for various purpose. So I wont start a debate on this reflector. For folks who are running a digi that will repeat a packet to "Relay" or "Wide" it seems to be fairly widely excepted to use the -3 suffix in the California Bay Area. When one is representing their home QTH and is not a "relay" or "wide" they typically use their callsign only.

Below is a thread on this subject from the CA APRS SIG. I hope it helps.

Great question!! The only list I've ever seen, I first found in WinAPRS under Lists, Icons. I later saw the same list in the excellent treatise "APRS Tracks, Maps, Mobiles" (title?), published by the ARRL. (At $14.95, it's the best general APRS reference book available, IMHO.) I'm guessing the list originated in APRS(DOS) by Bob Bruninga.

>From the list, -1 thru -15, I use -5 for WAVELENGTH (Yacht), -9 for an automobile, -12 for a 4X4 (Jeep), and -14 for my pick-up truck. I've certainly seen -14 (commonly) for 18-wheelers, as well (e.g. KC6BLF-14). There are, in a sense, two lists, btw, designated as "/" and "\". For the D7A(G), I go to "OTHERS" on menu 2-8, and enter "/=" to make a nifty little steam locomotive icon appear when I'm rail-mobile. ("The List" doesn't suggest an SSID for this icon, I just use -4 'cause it's

one of my better numbers. <grin>)

I've never felt any SSID is cast in stone, but
standardization is certainly helpful on findu.com,
for instance, which does not display icons.

73

-Dana W6DBM

I have been getting more active in APRS in recent
months but I have this question I can't find a clear
cut answer on. What is the recommended standard (if
any) for SSID use for different types of stations?

I have been using AD7DB-7 because I read that the -7
is encouraged for users of the Kenwood D7A and D700
which have display limitations on message strings;
this is supposedly to let other stations know in case
they send you a message.
http://nwaprs.org/downloads/SSIDs.pdf

Yet I've seen other places that say that -7 is
supposed to be for aircraft, -1 is for a BBS station,
-0 (or no SSID) is for your stationary home station,
-9 is for a car.

I see a number of hams using -12 for their mobiles,
and some use -9.

----- Original Message -----
From: "Fred Sanders" <WK1F@ARRL.Net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Tuesday, October 22, 2002 9:11 PM
Subject: [wxsig] Callsign extensions

> New to the group here, and also, weather station APRS ops. What number
> should I be using behind my call sign (WK1F-??)at the fixed weather
station
> here at the home QTH (digipeating is enabled)?? What about my APRS station
> in RV when the weather station is in OPS at home QTH?
>
> When I travel in RV, I use Pactor (Winlink) for Email. I send my position
> report using Pactor whenever I change locations and this will appear on
the
> internet FINDu. I really need my call sign (WK1F) without any extension
> for pactor and winlink OPS for readily identification.
>
> Any thoughts for my situation??
>
> Thanks,
>
> Fred
>
> ---
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>

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

11. [wxsig] RE: Callsign extensions

From: "jboora" <jboora@seanet.com>
Date: Thu, 24 Oct 2002 22:33:26 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-104373-2002.10.25-01.15.59--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm running a 24 X 7 APRS WX station from my home QTH. I don't use an
extension on my call sign. Just KD7FBT and select the weather Icon -
blue ball with WX. When mobile, I use -7 since I'm running a Kenwood
TH-D7. You might check the nwaprs.org web site for the correct
extension. I can't remember the specific extensions, so you might check
the APRS documentation. I'll be watching for you. Jim - KD7FBT -
Aberdeen, WA.

-----Original Message-----
From: bounce-wxsig-22307@lists.tapr.org
[mailto:bounce-wxsig-22307@lists.tapr.org] On Behalf Of Fred Sanders
Sent: Tuesday, October 22, 2002 9:11 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Callsign extensions

New to the group here, and also, weather station APRS ops. What number
should I be using behind my call sign (WK1F-??)at the fixed weather
station
here at the home QTH (digipeating is enabled)?? What about my APRS
station
in RV when the weather station is in OPS at home QTH?

When I travel in RV, I use Pactor (Winlink) for Email. I send my
position
report using Pactor whenever I change locations and this will appear on
the
internet FINDu. I really need my call sign (WK1F) without any extension

for pactor and winlink OPS for readily identification.

Any thoughts for my situation??

Thanks,

Fred

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---
You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

12. [wxsig] RE: Callsign extensions

From: "Will Beals" <will@beals5.com>
Date: Sat, 26 Oct 2002 09:44:49 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-104533-2002.10.26-11.36.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Fred:

Generally, it shouldn't matter too much, so any convention shouldn't matter
as far as the data is concerned. The APRS data string sent out (if you are
using a T238), identifies the data as being weather data independent of the
callsign suffix.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of jboora
Sent: Thursday, October 24, 2002 11:33 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] RE: Callsign extensions

I'm running a 24 X 7 APRS WX station from my home QTH. I don't use an
extension on my call sign. Just KD7FBT and select the weather Icon -
blue ball with WX. When mobile, I use -7 since I'm running a Kenwood
TH-D7. You might check the nwaprs.org web site for the correct
extension. I can't remember the specific extensions, so you might check
the APRS documentation. I'll be watching for you. Jim - KD7FBT -
Aberdeen, WA.

-----Original Message-----
From: bounce-wxsig-22307@lists.tapr.org
[mailto:bounce-wxsig-22307@lists.tapr.org] On Behalf Of Fred Sanders
Sent: Tuesday, October 22, 2002 9:11 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] Callsign extensions

New to the group here, and also, weather station APRS ops. What number
should I be using behind my call sign (WK1F-??)at the fixed weather

station
here at the home QTH (digipeating is enabled)?? What about my APRS
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position
report using Pactor whenever I change locations and this will appear on
the
internet FINDu. I really need my call sign (WK1F) without any extension

for pactor and winlink OPS for readily identification.

Any thoughts for my situation??

Thanks,

Fred

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To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

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You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

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You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

13. [wxsig] options for display and serial I/O

From: Richard Dowling <rpd@gci.net>
Date: Sun, 27 Oct 2002 18:27:36 -0800
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-104632-2002.10.27-22.10.42--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will,

I'm wondering how hard it would be to implement two options on the T-238.

1. Knots for wind speed
2. Fast updates in Peet mode, in essence a Peet emulator.

My understanding is as-is the fast-update mode is in APRS format, while the
Peet mode is at a 5 minute update frequency.

My reasons for wanting these capabilities are:

1. Knots are more familiar to and preferred by pilots.

2. A colleague wrote an application for the Dallas TINI that parses a Peet
weather station serial output and both performs hourly posts to a website
(http://www.energytools.com/WxRequest.asp) and is a web server which
replies to a Java client that displays the Peet weather station information
in real-time on the user's computer.

Thanks,

Richard Dowling
KL0DR

PS. If either or both of these subjects have already been addressed please
excuse the ring, I couldn't find them in the achieve. RPD

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

14. [wxsig] RE: options for display and serial I/O

From: "Will Beals" <will@beals5.com>
Date: Mon, 28 Oct 2002 11:59:46 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>

Message-ID: <LYR15067-104692-2002.10.28-13.44.38--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Richard:

Interesting on knots. For my flying, wind speed for landings and takeoffs
wasn't accurate enough to worry about the difference! Lemme see.

On Peet mode, it should be "fast", that is, every 5 seconds instead of every
5 minutes. I am away on a business trip (northern England currently), but
will look when I get back.

will

-----Original Message-----
From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Richard Dowling
Sent: Sunday, October 27, 2002 7:28 PM
To: TAPR WX Special Interest Group
Subject: [wxsig] options for display and serial I/O

Will,

I'm wondering how hard it would be to implement two options on the T-238.

1. Knots for wind speed
2. Fast updates in Peet mode, in essence a Peet emulator.

My understanding is as-is the fast-update mode is in APRS format, while the
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weather station serial output and both performs hourly posts to a website
(http://www.energytools.com/WxRequest.asp) and is a web server which
replies to a Java client that displays the Peet weather station information
in real-time on the user's computer.

Thanks,

Richard Dowling
KL0DR

PS. If either or both of these subjects have already been addressed please
excuse the ring, I couldn't find them in the achieve. RPD

You are currently subscribed to wxsig as: will@beals5.com
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

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You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

December 2002

Original source file: wxsig.0212
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/wxsig/mail_archive/wxsig.0212

1. [wxsig] replacement PCB

From: "Bill Gray" <bill.gray@thot.net>
Date: Mon, 16 Dec 2002 15:51:36
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-111303-2002.12.16-16.36.57--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

My unit was hit by lightning. The burn marks are pretty obvious. The unit
could not be detected at all - error message was that there was a short to
ground). I've tried replacing several of the components (9503 - it was
pooched - and diodes) with the result that it still can't see anything (but
the short to grond was eliminated).

Does anyone know if there s a source for a replacement PCB? I'm thinking
of giving up on ths one.

Bill Gray

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

2. [wxsig] Re: replacement PCB

From: "Russ Chadwick" <kb0tvj@peakpeak.com>
Date: Tue, 17 Dec 2002 02:30:50 -0000
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-111324-2002.12.16-21.16.13--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill,

Too bad on the lightning. I would try here for a replacement PCB for the
1-Wire weather station.

http://www.aag.com.mx/weather/index.html

Russ Chadwick   KBØTVJ
Boulder, Colorado
www.wxqa.com

----- Original Message -----
From: "Bill Gray" <bill.gray@thot.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Monday, December 16, 2002 3:51 PM
Subject: [wxsig] replacement PCB

> My unit was hit by lightning. The burn marks are pretty obvious. The unit
> could not be detected at all - error message was that there was a short to
> ground). I've tried replacing several of the components (9503 - it was
> pooched - and diodes) with the result that it still can't see anything
(but
> the short to grond was eliminated).
>
> Does anyone know if there s a source for a replacement PCB? I'm thinking
> of giving up on ths one.
>
> Bill Gray
>
> ---
> You are currently subscribed to wxsig as: kb0tvj@peakpeak.com
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

3. [wxsig] Re: replacement PCB

From: "Aitor Arrieta" <aag@aag.com.mx>
Date: Tue, 17 Dec 2002 08:52:32 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-111381-2002.12.17-09.33.05--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Bill
Yes , please contact me off the list to give you the exact cost including
shipping.
Regards
Aitor Arrieta
www.aag.com.mx

----- Original Message -----
From: "Bill Gray" <bill.gray@thot.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Monday, December 16, 2002 3:51 PM
Subject: [wxsig] replacement PCB

> My unit was hit by lightning. The burn marks are pretty obvious. The unit
> could not be detected at all - error message was that there was a short to
> ground). I've tried replacing several of the components (9503 - it was
> pooched - and diodes) with the result that it still can't see anything
(but
> the short to grond was eliminated).
>
> Does anyone know if there s a source for a replacement PCB? I'm thinking
> of giving up on ths one.
>
> Bill Gray
>
> ---
> You are currently subscribed to wxsig as: aag@aag.com.mx
> To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org
>

You are currently subscribed to wxsig as: lyris.wxsig@tapr.org
To unsubscribe send a blank email to leave-wxsig-15067P@lists.tapr.org

4. [wxsig] BP Sensor Complete/Odd Problems

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Fri, 27 Dec 2002 23:02:29 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-112668-2002.12.27-23.48.26--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello all and Happy Holidays.

I just completed my BP sensor kit (V3.0 SMT) and am trying to get it on the air. When I plug the unit into the 1-wire net (without power to the BP sensor) it brings the net down and I get a "1 wire bus shorted to ground" message on my T238. Applying power to the sensor brings the net back online, but I lose contact with my wind sensor. Wind speed, direction and temperature no longer read. Remove the BP sensor and the T238 reads Temperature, wind speed and direction again. While plugged in the T238 does display BP, and I am able to read the the DS2438 with the Dallas tools. Seems like I've got a choice. BP or wind and temperature.

Any help would be appreciated.

Rich - wn0x

5. [wxsig] RE: BP Sensor Complete/Odd Problems

From: "Will Beals" <will@beals5.com>
Date: Sat, 28 Dec 2002 08:34:20 -0700
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-112721-2002.12.28-11.14.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich:

I have actually started some work on the few minor bugs in Byrons BP code for the T238. There IS a solution to your problem as at least there are a few others that are not seeing the problem. It does sound like a bus loading issue, and I remember from a while back that there was a change to the kits that involved the 1-wire bus pull-up resistor. I'm away from home now and don't have a schematic with me, so I can't tell you the resistor number. It used to be something like 4.7K and we reduced it to something

like 1.5K. I'm sorry I can't be more specific.

The BP sensor DOES require a dedicated power line. It cannot be powered by just the 1-wire bus. There is some circuitry on there that takes much more power than the 1-wire bus can provide. Since I keep my BP sensor indoors, I just made a short cable with the power wire from the T238 to the BP sensor, then plugged the rest of the 1-wire net into the loop-through connector on the BP sensor. My source of power for the BP sensor is my wall-wart power just before it goes into the 5V regulator.

I do not have a good reason why the wind speed and temperature disappear when you plug in the BP sensor. Are you doing a loop-through as well? Is there anything else on the other side of the loop that does work (like rain, humidity, etc?). About the only thing I can think of is something simple like an open connection or something. The Dallas chip in the BP sensor is the same one used by the humidity sensor, but as long as you have the right IDs programmed in, this should not cause a conflict.

will
  -----Original Message-----
  From: bounce-wxsig-21132@lists.tapr.org
[mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Rich Beckwith
  Sent: Friday, December 27, 2002 10:02 PM
  To: TAPR WX Special Interest Group
  Subject: [wxsig] BP Sensor Complete/Odd Problems

  Hello all and Happy Holidays.

  I just completed my BP sensor kit (V3.0 SMT) and am trying to get it on the air. When I plug the unit into the 1-wire net (without power to the BP sensor) it brings the net down and I get a "1 wire bus shorted to ground" message on my T238. Applying power to the sensor brings the net back online, but I lose contact with my wind sensor. Wind speed, direction and temperature no longer read. Remove the BP sensor and the T238 reads Temperature, wind speed and direction again. While plugged in the T238 does display BP, and I am able to read the the DS2438 with the Dallas tools. Seems like I've got a choice. BP or wind and temperature.

  Any help would be appreciated.

  Rich - wn0x

6. [wxsig] Re: BP Sensor Complete/Odd Problems

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sat, 28 Dec 2002 12:28:10 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-112726-2002.12.28-12.13.31--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Rich
When I first built my BP, I suddenly got a lot of errors on wind direction. After attempts to fix with the resistor Will mentioned, I gave up and just lived with it. After several months of operation, it finally died. With Aitors help, we diagnosed it as a bad cap on the board in the wx head. Replacing the board restored the operation.

I still get some misreads on the wind direction and should probably try the 100 ohm resistor fix. (Not until spring!)
Byron
P.S. Will and I have exchanged some ideas on the BP code.
No fix yet, but we are trying.
  ----- Original Message -----
  From: Rich Beckwith
  To: TAPR WX Special Interest Group
  Sent: Saturday, December 28, 2002 12:02 AM
  Subject: [wxsig] BP Sensor Complete/Odd Problems

  Hello all and Happy Holidays.

  I just completed my BP sensor kit (V3.0 SMT) and am trying to get it on the air. When I plug the unit into the 1-wire net (without power to the BP sensor) it brings the net down and I get a "1 wire bus shorted to ground" message on my T238. Applying power to the sensor brings the net back online, but I lose contact with my wind sensor. Wind speed, direction and temperature no longer read. Remove the BP sensor and the T238 reads Temperature, wind speed and direction again. While plugged in the T238 does display BP, and I am able to read the the DS2438 with the Dallas tools. Seems like I've got a choice. BP or wind and temperature.

  Any help would be appreciated.

Rich - wn0x

7. [wxsig] Re: BP Sensor Complete/Odd Problems

From: Gary Sanders <gls0@earthlink.net>
Date: Sat, 28 Dec 2002 13:14:36 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-112727-2002.12.28-13.00.30--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Byron D. Lichtenwalner wrote:
>
> I still get some misreads on the wind direction and should probably try
> the 100 ohm resistor fix. (Not until spring!)

Where will you put the 100 ohm resistor? Is the delay in installing it due to the weather conditions?

I haven't been following this or the DalSemi group very long, but have noticed a number of references to the resistor. Forgive me if this topic has already been been to death.

I did a little research in some of DalSemi's tech notes, and they recommend that a 100 ohm resistor, along with a small capacitor, be placed between the DS9097U-9 adapter and the 1-wire network (resistor in series with the Data line, cap across Data and Ground.).

I have about 10 temp sensors scattered about the house in a really poor topology (combination of star and series - not good!), and was having severe errors to the point that half the sensors didn't work at all. I put just the single resistor in series with the Data line at the adapter end, and all the sensors have been working fine ever since.

Gary Sanders

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8. [wxsig] RE: BP Sensor Complete/Odd Problems

From: "Rich Beckwith" <wn0x@earthlink.net>
Date: Sat, 28 Dec 2002 14:11:18 -0600
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-112736-2002.12.28-14.58.49--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks for the prompt replies all!

I have attached a small picture depicting the topology. The BP sensor is connected about two feet away from the T238. Other combinations including through the BP sensor made no difference. When I lifted the BAT54 I was able to connect to the network without dropping it, but it still knocked the wind sensor off line.

All connections are made with high quality CAT 5 cable. The humidity sensor is the "Humidity Experimentors Kit" Dallas sold for a while. The junction box is about 10 feet below the wind sensor on the top of my barn.

Thanks for your help guys. I can try the 100 ohm resistor trick but am not sure where I would put them on the network.

Rich - Wn0x

> ----- Original Message -----
> From: Will Beals
> To: TAPR WX Special Interest Group
> Sent: Saturday, December 28, 2002 9:34 AM
> Subject: [wxsig] RE: BP Sensor Complete/Odd Problems
>
> Rich:
>
> I have actually started some work on the few minor bugs in Byrons BP code for the T238. There IS a solution to your problem as at least there are a few others that are not seeing the problem. It does sound like a bus loading issue, and I remember from a while back that there was a change to the kits that involved the 1-wire bus pull-up resistor. I'm away from home now and don't have a schematic with

me, so I can't tell you the resistor number. It used to be something like 4.7K and we reduced it to something like 1.5K. I'm sorry I can't be more specific.

  The BP sensor DOES require a dedicated power line. It cannot be powered by just the 1-wire bus. There is some circuitry on there that takes much more power than the 1-wire bus can provide. Since I keep my BP sensor indoors, I just made a short cable with the power wire from the T238 to the BP sensor, then plugged the rest of the 1-wire net into the loop-through connector on the BP sensor. My source of power for the BP sensor is my wall-wart power just before it goes into the 5V regulator.

  I do not have a good reason why the wind speed and temperature disappear when you plug in the BP sensor. Are you doing a loop-through as well? Is there anything else on the other side of the loop that does work (like rain, humidity, etc?). About the only thing I can think of is something simple like an open connection or something. The Dallas chip in the BP sensor is the same one used by the humidity sensor, but as long as you have the right IDs programmed in, this should not cause a conflict.

  will
    -----Original Message-----
    From: bounce-wxsig-21132@lists.tapr.org [mailto:bounce-wxsig-21132@lists.tapr.org]On Behalf Of Rich Beckwith
    Sent: Friday, December 27, 2002 10:02 PM
    To: TAPR WX Special Interest Group
    Subject: [wxsig] BP Sensor Complete/Odd Problems

    Hello all and Happy Holidays.

    I just completed my BP sensor kit (V3.0 SMT) and am trying to get it on the air. When I plug the unit into the 1-wire net (without power to the BP sensor) it brings the net down and I get a "1 wire bus shorted to ground" message on my T238. Applying power to the sensor brings the net back online, but I lose contact with my wind sensor. Wind speed, direction and temperature no longer read. Remove the BP sensor and the T238 reads Temperature, wind speed and direction again. While plugged in the T238 does display BP, and I am able to read the the DS2438 with the Dallas tools. Seems like I've got a choice. BP or wind and temperature.

    Any help would be appreciated.

    Rich - wn0x
[Attachment: wn0xnet.jpg; image/jpeg; 7,772 bytes]

9. [wxsig] CAT5 cable

From: John Koster <w9ddd@tapr.org>
Date: Sat, 28 Dec 2002 15:08:14 -0600 (CST)
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-112742-2002.12.28-15.54.14--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm not familiar with the specs for CAT5, so it may be just as good. I used to be involved with a company that installed security systems that used the I-DISC as an access badge. Same one wire technology, just a serial number instead of a temperature. The instruction manual suggested using a low capacity shielded twisted pair. I'm not sure how helpful the shield was, but the best cable they could find was something like 12 or 13 pFd per foot, where standard cable was around 22 pFd per foot. The numbers are from memory, so they be off, check a Belden catalog, but the ratio is close. I would think CAT5 would have to be low cap too, but I've never looked at a spec.

John Koster, W9DDD
<w9ddd@tapr.org>

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10. [wxsig] Re: BP Sensor Complete/Odd Problems

From: "Byron D. Lichtenwalner" <w3wkr@ptd.net>
Date: Sat, 28 Dec 2002 17:24:57 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-112747-2002.12.28-17.10.14--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Gary
he 100 ohm resistor will go in series with the data line. If that doesn't work, I'll put one across the lines(data to ground).

Yes, I'll do that when spring comes. Too cold to work on it now.
Byron

----- Original Message -----
From: "Gary Sanders" <gls0@earthlink.net>
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Sent: Saturday, December 28, 2002 1:14 PM
Subject: [wxsig] Re: BP Sensor Complete/Odd Problems

> Byron D. Lichtenwalner wrote:
> >
> > I still get some misreads on the wind direction and should probably try
> > the 100 ohm resistor fix. (Not until spring!)
> >
> >
> Where will you put the 100 ohm resistor? Is the delay in installing it
> due to the weather conditions?
>
> I haven't been following this or the DalSemi group very long, but have
> noticed a number of references to the resistor. Forgive me if this topic
> has already been been to death.
>
> I did a little research in some of DalSemi's tech notes, and they
> recommend that a 100 ohm resistor, along with a small capacitor, be
> placed between the DS9097U-9 adapter and the 1-wire network (resistor in
> series with the Data line, cap across Data and Ground.).
>
> I have about 10 temp sensors scattered about the house in a really poor
> topology (combination of star and series - not good!), and was having
> severe errors to the point that half the sensors didn't work at all. I
> put just the single resistor in series with the Data line at the
> adapter end, and all the sensors have been working fine ever since.
>
> Gary Sanders
>
>
>
> ---
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>
>

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11. [wxsig] Re: BP Sensor Complete/Odd Problems

From: Gary Sanders <gls0@earthlink.net>
Date: Sat, 28 Dec 2002 18:03:41 -0500
To: "TAPR WX Special Interest Group" <wxsig@lists.tapr.org>
Message-ID: <LYR15067-112750-2002.12.28-17.49.38--lyris.wxsig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Byron D. Lichtenwalner wrote:
> Gary
> he 100 ohm resistor will go in series with the data line. If that doesn't
> work, I'll put one across the lines(data to ground).
>
> Yes, I'll do that when spring comes. Too cold to work on it now.

Just put the resistor in the Data line at the computer end - that's what
I did and it worked fine.

Gary Sanders

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